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EXPERIMENTAL AND ANALYTICAL INVESTIGATION OF NEAR-FIELD COAXIAL MIXING

D. C. Chriss, et al

Arnold Engineering Development Center

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In this report, the results of a series of experiments concerned with the near field of coaxial, nearly constant density, air-air jets are described. The experiments were carried out at an external stream velocity of 30.5 m/sec, and at nominal inner jet-to-outer jet velocity ratios of 3:1, 2:1, and 1:1. A largescale apparatus was used, with a 29.2-cm-diam outer jet surrounding a 7.6-cm-diam inner jet. At the nozzle exit a 0.25-mm-thick lip separated the two streams. Thick turbulent boundary layers were generated at the nozzle exit plane, resulting in a thick viscous region downstream of the nozzle, suitable for probing with conventional pitot probe instrumentation. Turbulent shear stress profiles were obtained by integration of the measured mean flow velocity profiles. To assess the adequacy of current turbulence models in this flow regime, in particular in circumstances in which the full details of the initial conditions are not known, the experimental data were compared with the predictions of two turbulent kinetic energy flow-field models. The simpler of these models uses an empirical relationship for the turbulent shear stress as a function of the turbulent kinetic energy (TKE), whereas the more complicated model involves the simultaneous solution of transport equations for the shear stress and the TKE. Both models were found to provide reasonably accurate predictions of the strong-shear (velocity ratio 3 and 2) cases, using estimated initial conditions, but for the velocity ratio 1 case both models exhibited inaccuracies related to their inherent assumptions.

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PREFACE

The work reported herein was conducted by the Arnold Engineering D:velopment Center (AEDC), Air Force Systems Command (AFSC), for the Air Force Office of Scientific Research under Program Element 61102F, Project 9711. AFOSR project monitor was Dr. B. T. Wolfson. The work was done by ARO, Inc. (a subsidiary of Sverdrup & Parcel and Associates, Inc.), contract operator of AEDC, AFSC, Arnold Air Force Station, Tennessee. The investigation was performed under ARO Project Numbers RF208 and RF408 from July 1, 1972 to June 30, 1974, and the manuscript (ARO Control No. ARO-ETF-TR-74-95) was submitted for publication on October 7, 1974.

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1.0 INTRODUCTION

The first regime of coaxial jets, which is also termed the developing region, is that part of the flow between the nozzle exit and the point at which the viscous mixing region between the two streams reaches the axis of the center jet (Fig. 1). In this part of the flow field, the characteristics of the turbulent flow change from the boundary-layer flow on the walls of the nozzle through a quasi-two-dimensional shear layer region to an

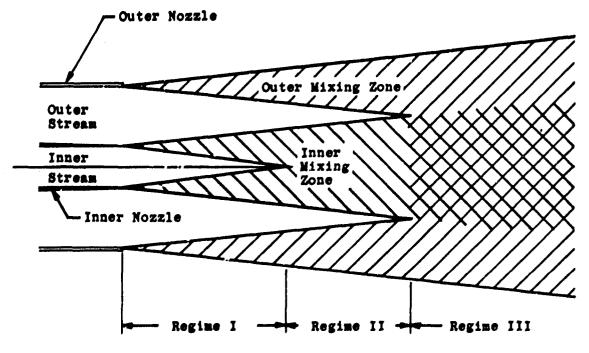


Figure 1. Mixing flow rield.

axisymmetric jet. From a theoretical standpoint, a proper description of the first regime is essential for the prediction of the downstream flow, for although coaxial jets eventually reach a fully developed state, the distance from the nozzle exit at which this occurs is dependent on the characteristics of the flow in the developing region.

1.1 EXPERIMENTAL BACKGROUND

There have been a number of experiments reported which have been concerned with the coaxial jet flow field. For example, Forstall and Shapiro (Ref. 1) investigated the mean flow field in coaxial mixing of air jets, with a helium tracer added to the central jet, whereas Chriss and Paulk (Ref. 2) investigated the mixing of coaxial air-air and hydrogen-air jets. Both of these experiments were concerned primarily vith the flow field in the second regime (Fig. 1), and thus little emphasis was placed on measurements in the first regime or on the definition of the boundary layers at the nozzle exit. Other coaxial mixing experiments have been summarized by Harsha (Ref. 3); generally, in none

of these experiments has much emphasis been placed on the definition of the flow in the developing region, or on the description of the initial boundary layer.

Two recent papers have been concerned to some degree with the influence of initial flow conditions on the development of incompressible coaxial jets and on the measurement of the flow field in the first regime. Both of these experiments intentionally involved fairly large regions of recirculation at the initiation of free mixing. Matsumoto et al. (Ref. 4) investigated a number of coaxia! jet configurations at various velocity ratios and nozzle exit lip thicknesses, ranging from 0.7 to 4.3 mm, with a 5.2-mm-diam nozzle. In these experiments the flow in the inner jet was fully developed pipe flow at the nozzle exit, and thus there was no potential core, in the conventional sense. As would be expected, they found that the existence of a recirculation region downstream of the largest lip thicknesses had a very strong effect on the centerline velocity decay rate, considerably increasing the decay rate over that which exists with a thin nozzle lip. On the other hand, they unexpectedly found an increase in mixing rate at a constant value of nozzle lip thickness ($\delta_L = 0.7$ mm) with increase in the velocity ratio toward 1.0. Although Matsumoto et al. carried out an extensive investigation of the flow field, there were no measurements made in the initial part of the flow, upstream of $x/D_i = 4$.

The experimental investigation carried out by Durão and Whitelaw (Ref. 5) is in some respects the most similar to the work reported in this paper. In this experiment the developing region of a coaxial jet flow was extensively investigated for several velocity ratios and in all cases with the annulus velocity greater than the central jet velocity. The velocity ratios considered by Durão and Whitelaw were chosen for their relevance to furnace applications, as was the relatively thick nozzle lip ($\delta_L = 5.46$ mm with $D_j = 16.13$ mm, $D_o = 44.50$ mm). Fully developed flow conditions were chosen both for the annulus and the central jet, so that again there was no potential core in the conventional sense. Durão and Whitelaw carried out comprehensive hot-wire measurements in the near field and concluded that their results, in particular the varying relative magnitude of the normal stresses, indicate that the turbulent kinetic energy is less satisfactory as a characteristic of the turbulence in the developing region than it is of that in the farther-field jet region. This conclusion implies that the turbulent kinetic energy alone is not a satisfactory parameter for the theoretical modeling of the near field.

The present experiment, while sharing some of the objectives of Refs. 4 and 5, differs considerably in detail. For example, although the nozzle diameters used in this study were considerably larger than those used by Matsumoto et al. and by Durão and Whitelaw (in this case $D_J = 29.2$ cm and $D_o = 7.6$ cm), the inner nozzle lip was thinner than in either of those experiments ($\delta_L = 0.25$ mm). This avoided any substantial region of recirculating flow at the nozzle exit. Thick turbulent boundary layers were generated at the nozzle exit, but in no case was either the central jet or annular flow fully developed.

Thus a conventional potential core existed in all flow fields studied. In all cases, the center jet velocity was higher than the annular flow velocity; with a nominal outer stream velocity, U_e , of 30.5 m/sec, nominal velocity ratios of $U_j/U_e=3$, 2, and 1 were investigated. Temperature profiles and measurements of mean velocity were made, using conventional pitot probe instrumentation, in both the developing shear-layer region and in the nozzle boundary layers upstream of the nozzle exit. Nozzle wall shear stress data were obtained from the boundary-layer velocity profiles by a Clauser chart technique. Turbulent shear stress profiles were obtained in the shear layer region by integration of the mean flow velocity profiles. In the present series of experiments, measurements were confined to the developing region over the range $0 \le x/D_j \le 8$.

1.2 THEORETICAL BACKGROUND

In recent years a number of analytical techniques have been developed for the prediction of free turbulent flow phenomena. The most successful of these models have been based on the solution of the turbulent kinetic energy equation as the equation governing the local flow turbulence structure; such techniques have shown considerable generality when compared to earlier turbulence models (see, for example, Refs. 3 and 6). All of these methods involve the specification of a length scale characteristic of the turbulence. In addition, some relationship between the turbulent kinetic energy and the turbulent shear stress must be specified, either algebraically or through the solution of simultaneous differential equations for the turbulent shear stress and the turbulent kinetic energy. One of the least complex of the turbulent kinetic energy models is that developed originally by Lee and Harsha (Ref. 7) and extended and generalized by Harsha (Ref. 8). In this model a simple algebraic relationship is assumed, following Bradshaw, between the turbulent shear stress and the turbulent kinetic energy:

$$\tau = a_1 \rho k \tag{1}$$

where a₁ is generally a function of the lateral coordinate with a maximum value of 0.3. It is further assumed that the turbulent length scale can be defined in terms of the flow-field geometry. A more complicated model has been developed by Hanjalic' and Launder (Refs. 9 and 10) in an effort to avoid some of the assumptions inherent in the simpler models. In the Hanjalic' and Launder model, an algebraic relationship such as Eq. (1) is dispensed with by simultaneously solving transport equations for the turbulent kinetic energy and the turbulent shear stress, although the Prandtl-Kolmogorov relationship

$$\tau \propto \rho k^{\frac{1}{2}} \ell_k \frac{\partial u}{\partial r}$$
 (2)

is implicit in the modeling of some of the terms in the kinetic energy and shear stress equations. In addition, a transport—uation for the turbulent length scale is written in

the form of an equation for the product $k^{3/2} \ell_k^{-1}$, which can be interpreted as a transport equation for the turbulent kinetic energy dissipation, and this is solved simultaneously with the other transport equations describing the flow field.

The Lee and Harsha model has been shown to provide a good description of planar and axisymmetric coaxial jets in the moderately far field - the second regime of Fig. 1 (Refs. 3 and 8) - and the Hanjalic' and Launder model has been successfully applied to a number of planar flows (Refs. 9 and 10). However, no specific investigation of the application of either of these models to the prediction of the near field of coaxial jets has been reported, although it might be suspected that the Hanjalic' and Launder model would be superior in this complex developing flow.

The Lee and Harsha model requires the specification of initial profiles of the mean velocity and the turbulent kinetic energy, whereas the Hanjalic' and Launder model requires, in addition, initial profiles of the turbulent shear stress and turbulent kinetic energy (TKE) dissipation rate. Although it has been shown that the initial TKE profile at the nozzle exit can be adequately estimated for use in the Lee and Harsha model (Ref. 8), this conclusion was reached from comparison of results in the second regime, and it is not clear whether the estimation techniques are suitable in the near field as well. No study of the use of estimated initial conditions in the Hanjalic' and Launder model has been made. In order to investigate these problems, calculation of the flow fields described in this report have been carried out using both models, and the results of these calculations are discussed in the fourth part of this report.

2.0 EXPERIMENTAL APPARATUS AND PROCEDURE

2.1 TEST APPARATUS

The near-field mixing test apparatus is shown in schematic form in Fig. 2. Air flows around the inner plenum and nozzle through a 29.2-cm-diam subsonic nozzle to form an annular stream surrounding the subsonic flow from the inner nozzle. The supply line for the central jet incorporated a small electric heater which was capable of producing a 36°C maximum temperature difference between the two streams in order to provide a tracer for investigation of scalar transport. In all tests described in this report, with the exception of the 3:1 velocity ratio, tripped boundary-layer cases, the jet gas was heated. The density ratio for each case is reported herein; the minimum density ratio (ρ_j/ρ_e) was 0.87.

Two inner nozzles were used. Both nozzles incorporated a 39.5-cm-long extension section, as shown in Fig. 2, with an inner diameter of 7.6 cm and a trailing-edge thickness of 0.25 mm. One nozzle incorporated 2.5-mm square-section boundary-layer trip rings on the inside and outside of the extension section, lo 36 cm upstream of the nozzle

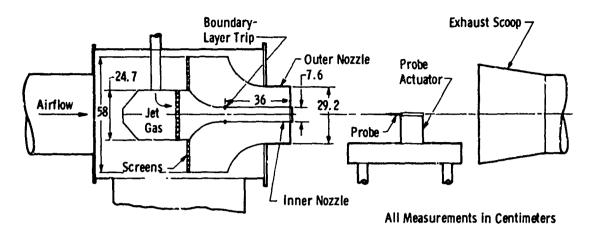


Figure 2. Schematic diagram of the ree-jet-mixing test cell.

exit; no trips were used with the other nozzle. The trip rings were designed with axial grooves to inhibit the formation of vortices at their downstream ends. A series of fine mesh screens was placed upstream of the nozzle contraction in both the central- and outer-stream nozzles to reduce flow nonuniformities. The 39.5-cm straight section was used downstream of the nozzle contraction, as shown in Fig. 2, to allow the development of a thick turbulent boundary layer before the nozzle exit plane. The test section was open to the atmosphere, so that the mixing process took place in an essentially constant pressure environment, but the airflow from the nozzle was removed by a downstream scoop attached to the Engine Test Facility (ETF) exhaust system.

Before detailed shear layer measurements were made, the flow field in the exit plane was extensively surveyed to establish the existence of profile symmetry about the flow axis.

2.2 INSTRUMENTATION

The large size of the flow field generated by the apparatus used in this study made measurement of mean velocity and mean temperature profiles with conventional instrumentation feasible. Thus a combination total pressure and total temperature probe identical to that used by Chriss and Paulk (Ref. 2) was used for all measurements in the free-mixing flow field. Differential total pressure measurements (referenced to atmosphere) were made using a pitot probe and strain gage transducers, whereas total temperature measurements were made using a copper-constantan thermocouple mounted inside of the pitot probe. The estimated accuracy of the pressure measurements is ±0.2 millibars. An accuracy of ±1°C is estimated for the total temperature measurement.

Position of the probe in the flow field was controlled by a three-axis actuator. Total temperature was recorded with the probe aspirated to a vacuum, and total pressure was

recorded with no Now through the probe. Pressure, temperature, and probe position measurements were recorded using a digital data acquisition system.

In addition to the probe measurements in the free-mixing flow field, the boundary layers on the nozzle walls were investigated using a 0.1-mm inside diameter, square-tipped miniature pitot probe, 0.25 mm in outside diameter. The central jet was not heated in tests in which the internal nozzle wall boundary layer was being investigated. Other measurements of the total pressure in the jet and secondary stream plenum were also made to aid in adjusting the velocities in the two streams.

2.3 TEST PROCEDURE

Before each test, in-place calibrations of all pressure transducers and of the wire-wound potentiometers used to indicate probe position were carried out.

To obtain a data point, the probe was first traversed radially at a fixed axial location until the desired radial location was reached. A single switch began an automatic data acquisition operation in which each data item was recorded in sequence, first in the pressure mode and next in the temperature mode, with adequate time delay for statilization. When all data at the radial location were recorded, the magnetic tape drive was automatically stopped and the probe drive engaged to traverse the probe to the next radial location. The total time required to obtain a data point in a radial survey was approximately 25 sec; typically 35 data points were obtained at a given a set location. Radial traverses were obtained at approximately 12 axial stations, so that a second of some 400 data points were obtained to define a flow field.

2.4 DATA REDUCTION PROCEDURE

The data were reduced in three steps with the aid of a digital computer. First, the magnetic tape from the data acquisiton system was processed through a data reduction program which used calibrations obtained at the beginning of the test to convert the transducer signals into pressure, temperature, and probe position measurements.

In the second step, the mean density, velocity, and static temperature were computed at each point in the flow field. These computations used the measured temperatures and pressures under the assumptions of an ideal gas, an isentropic stagnation process, and constant static pressure equal to the barometric pressure.

The third and final step in the data reduction procedure involved the computation of the turbulent shear stress at points in the flow field. This was done by the technique

described in detail in Ref. 2. In this procedure, the boundary-layer form of the axial momentum equation,

$$\rho \operatorname{ur} \frac{\partial u}{\partial x} + \rho \operatorname{vr} \frac{\partial u}{\partial r} = \frac{\partial}{\partial r} \left(\mu_{\mathrm{T}} r \frac{\partial u}{\partial r} \right) = \frac{\partial (\tau r)}{\partial r}$$
 (3)

is used. Where it has been assumed that the molecular transport coefficients are negligible compared to the turbulent coefficients, the normal stress terms are neglected, and the pressure field is assumed to be constant.

To obtain the turbulent shear stresses, Eq. (3) was integrated between the centerline and an arbitrary control surface (r^*) to obtain the following equation:

$$\frac{d}{dx} \int_{0}^{r^{*}} \rho u^{2} r dr - u^{*} \frac{d}{dx} \int_{0}^{r^{*}} \rho u r dr = \mu_{T}^{*} r^{*} \frac{\partial u}{\partial r} \Big|_{r^{*}} = \tau^{*} r^{*}$$
(4)

Numerical techniques were used to evaluate Eq. (4) for the shear stress, τ^* , at each chosen control surface r^* .

3.0 DISCUSSION OF RESULTS

3.1 FLOW-FIELD DESCRIPTION

The first regime of Fig. 1 is the region of interest in this study. For the conditions of this experiment, this regime extends from the jet exit to five to eight central nozzle diameters downstream, depending on the velocity ratio between the jet and the annular stream. Two sets of initial conditions for the free-mixing process were established by using boundary-layer trips for one set and omitting them for the other. Three velocity ratios, nominally $U_j/U_c=3$, 2, and 1, were investigated for each type of initial condition. Measurements were obtained ... the nozzle boundary layers and at downstream stations to beyond the end of the potential core.

3.2 BOUNDARY-LAYER DATA

Measurements were carried out in the boundary layers on the inside and outside of the inner nozzle to a distance of 3.8 cm upstream of the nozzle exit. Velocity profiles obtained from these measurements were used to obtain a value of the skin friction coefficient, C_f , by fitting a straight line to the logarithmic portion of the velocity profile on a Clauser plot as described in Ref. 11. Little variation in the values of C_f obtained in this manner was observed over the axial range measured for a given boundary layer. Values of the skin-friction coefficient obtained in this manner for the inner and outer boundary layers are shown in Fig. 3 as a function of the boundary-layer momentum

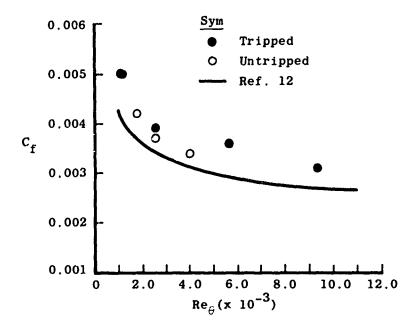


Figure 3. Nozzle wall boundary-layer skin friction coefficients compared to Spalding and Chi incompressible correlation (Ref. 12).

thickness Reynolds number, $Re\theta$. The momentum thickness, θ , is evaluated at the nozzle exit plane, using the two-dimensional definition. Also shown in Fig. 3 is the empirical skin-friction correlation developed by Spalding and Chi, Ref. 12, for incompressible flat plate boundary layers. The untripped boundary-layer skin-friction coefficients fall reasonably close to the Spalding and Chi correlation, whereas the tripped-boundary-layer results fall some 10 to 20 percent above the Spalding and Chi correlation, but exhibit the same general trend. In addition to C_1 and $Re\theta$, computed values of the shape parameter, H, again computed using the two-dimensional definition of δ^* and θ , are given for all boundary layers in Table 1. Because the Spalding and Chi correlation has no provision for independent variation in shape factor, these results are also compared with the Ludwig and Tillman law (Ref. 13) in this table. The Ludwieg and Tillman law yeilds C_f as a function of both $Re\theta$ and H, and thus fits the tripped boundary layers, for which H was rather lower than in the untripped case and somewhat better than the Spalding and Chi formulation.

Velocity profiles measured at the nozzle exit plane are shown in Fig. 4. Very little difference in tripped and untripped profiles is observed for the outer nozzle boundary layer, in keeping with the essentially constant values of $C_{\rm f}$ and H observed. However, a substantial effect of the boundary-layer trips is clearly observed for the inner boundary layers, with an extremely thick viscous region being generated in the high velocity, tripped case. Note also that the untripped-boundary-layer thickness decreases with increasing flow

Table 1. Comparison of Measured Boundary-Layer Skin Friction Coefficients with Empirical Skin Friction Laws.

Nominal Velocity, m/sec	Туре	$Re_{\theta} \times 10^3$	н_	C _f Experiment	C _f Spalding-Chi	C _f Ludweig-Tillman
30. 5	Untripped, Outside	1. 08	1. 38	0 005	0. 0041	0, 0044
30. 5	Tripped. Outside	1. 17	1. 34	0. 005	0. 0041	0. 0046
30, 5	Untripped. Inside	1. 83	1. 38	0 0042	0. 0037	0. 0038
30. 5	Tripped, Inside	2. 58	1. 33	0. 0039	0. 0034	0. 0038
61	Untripped, Inside	2. 62	1. 40	0. 0037	0. 0034	0. 0033
61	Tripped, Inside	5. 69	1. 28	0. 0036	0. 0029	0. 0033
91. 5	Untripped, Inside	3. 98	1. 35	0. 0034	0 0031	0. 0033
91. 5	Tripped, Inside	9. 43	1. 24	0.0031	0. 0027	0. 0031

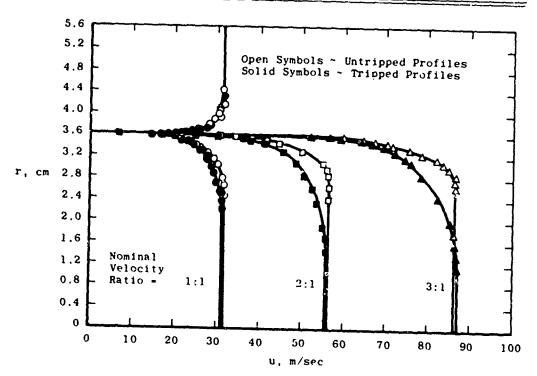


Figure 4. Initial boundary-layer profiles at nozzle exit.

velocity, as would be expected, but that the tripped-boundary-layer thickness increases. This type of anomaly has led to the generally accepted viewpoint that tripped-boundary-layer measurements must be treated with caution.

3.3 MIXING FIELD DATA

Velocity data were obtained for six nominal test conditions, involving velocity ratios of 3:1, 2:1, and 1:1 and both tripped and untripped boundary layers. Because of the difficulty inherent in accurately establishing these low velocities, the actual velocity ratio for each test is somewhat different from the nominal velocity ratio and also exhibits a moderate variation during a given test run. The actual velocities measured are indicated on the figures and in the data tabulation (Appendix A). Although temperature profiles are also available from these data and are included in the tabulation in Appendix A, only velocity field data are presented in graphical form. For clarity, some of the available data have been omitted on the figures to be discussed in this section.

Mean velocity profiles for the nominal 3:1 velocity ratio, tripped initial boundary-layer case are shown in Fig. 5, at five axial stations. The radial distance from the centerline of the apparatus is divided by the central jet radius to form the abscissa scale in all figures shown in this section. Some variation in the actual velocity ratio, here about $U_{jx}/U_{ex} = 3.3$, is apparent from this figure. Similar effects are apparent in the 2:1 tripped case,

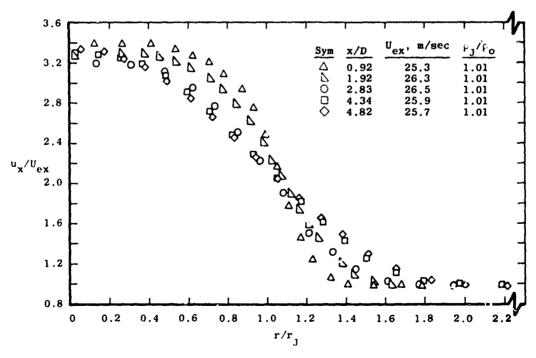


Figure 5. Mean velocity profiles, 3:1 velocity ratio, tripped.

Fig. 6, and the 1.1 velocity ratio, tripped case, Fig. 7. In all of these figures the local measured velocity, u_{∞} , is divided by the outer stream velocity measured locally, $U_{e\infty}$, and it can be seen from the tabulation included with the figures that a small variation in $U_{e\infty}$ occurred during each test.

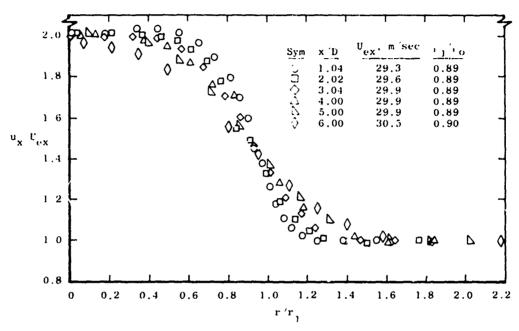


Figure 6. Mean velocity profiles 2:1 velocity ratio, tripped.

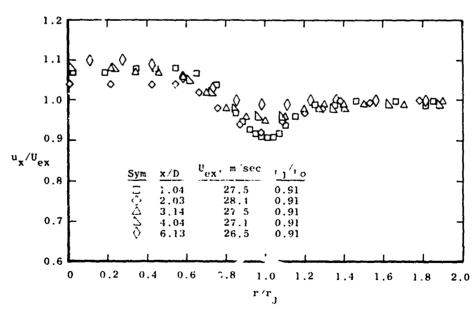


Figure 7. Mean velocity profiles, 1:1 velocity ratio, tripped.

Velocity profiles measured in the 3:1 velocity ratio, untripped boundary-layer case, are shown in Fig. 8. Comparison of this figure with Fig. 5, in which the data for the 3:1 velocity ratio, tripped boundary-layer case is presented, shows that the mixing field in the tripped case is considerably wider than that in the untripped case. This observation

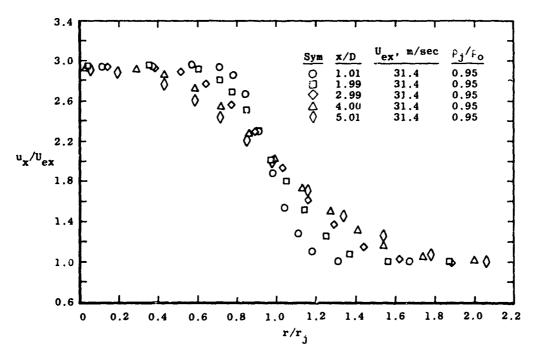


Figure 8. Mean velocity profiles, 3:1 velocity ratio, untripped.

is, of course, consistent with the greater width of the tripped boundary layers at the nozzle exit compared to the untripped boundary layers, as was shown in Fig. 4. The same decrease in mixing field width for the untripped boundary-layer flow fields as compared to those generated by the tripped boundary layer is evident in Fig. 9, for the nominally 2:1 velocity ratio case, and in Fig. 10, for the nominally 1:1 velocity ratio case.

In all of these figures a slight decrease in the measured velocity profile is apparent near the axis. This decrease is a result of a decrease in the measured total pressure near the centerline, which was observed in all tests. The decreased total pressure near the centerline is thought to be a result of the method of supplying air to the inner plenum, coupled with the relatively low contraction area ratio (10.5) for the inner nozzle, made necessary by space limitations. As is shown by Figs. 5 through 10, the velocity profile depression near the axis rapidly disappears downstream of the nozzle exit.

From Figs. 5 through 10 and from the values of the outer stream velocity, $U_{e\,x}$, tabulated on the figures, it is apparent that both the outer stream velocity and the jet

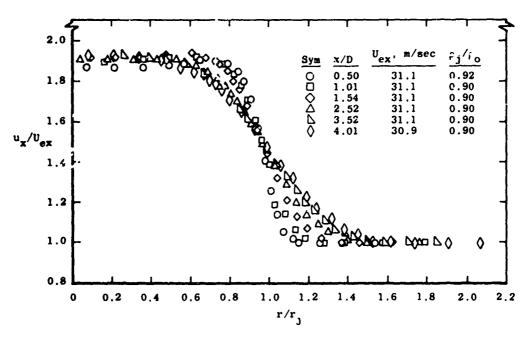


Figure 9. Mean velocity profiles, 2:1 velocity ratio, untripped.

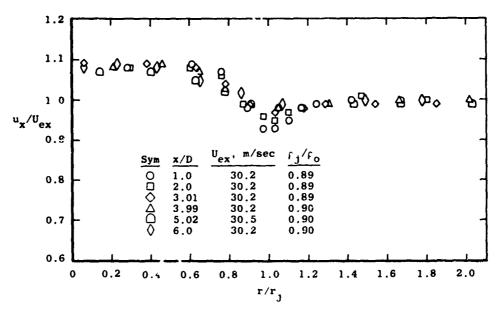


Figure 10. Mean velocity profiles, 1:1 velocity ratio, untripped.

velocity varied somewhat during each test. Although this deviation from a constant flow velocity amounted to no more than ±3 percent during a test, the resulting drift in edge velocities is significant from the standpoint of the momentum transport equation used to obtain the shear stress from these data. To compensate for this drift in test conditions, the transport velocity was adjusted to yield constant values of the centerline and

outer-stream velocity throughout each test. Thus the adjusted value of velocity was obtained from the relation

$$u = U_{eav} + \left(\frac{u_x - U_{ex}}{U_{jx} + U_{ex}}\right) (U_{jav} - U_{eav})$$
 (5)

where U_{eav} and U_{jav} are average values of the outer stream and jet velocity for the experiment, U_{ex} and U_{jx} are average values of the outer stream and jet velocity measured at a given axial location, and u_x is the individual velocity measured at a given radial point. The effect of this operation is to alter the velocity level while maintaining the observed velocity profile shape; the use of Eq. (5) may thus be looked upon as a smoothing operation performed to compensate for unavoidable variation in plenum conditions during a test.

Profiles of the adjusted velocity u/U_e are presented for the 3:1 velocity ratio, tripped-boundary-layer case in Fig. 11. Here U_e is the average velocity at the outer edge observed in the experiment. Similar profiles are shown for the 2:1 velocity ratio, tripped-boundary-layer case in Fig. 12, and for the 3:1 and 2:1 velocity ratio, untripped-boundary-layer cases in Figs. 13 and 14. A comparison of Figs. 11 and 13 and Figs. 12 and 14 again shows the increased mixing region width that is generated by the tripped boundary layers. Smoothed results for the 1:1 velocity ratio cases are not shown.

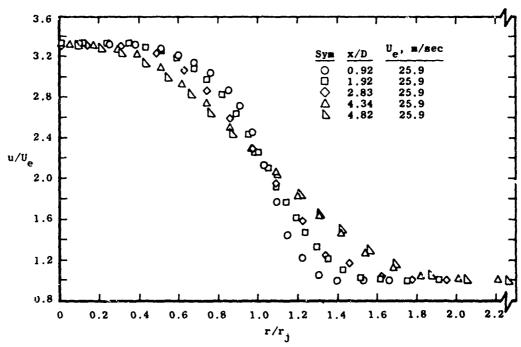


Figure 11. Mean velocity profiles, 3:1 velocity ratio, tripped, after edge velocity adjustment.

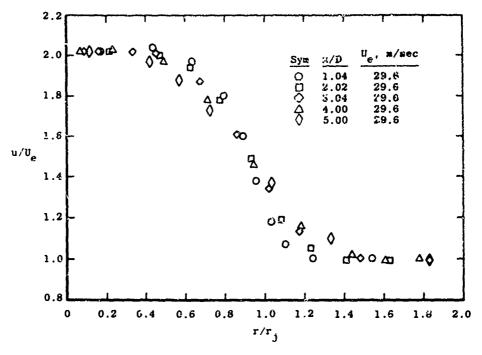


Figure 12. Mean velocity profiles, 2:1 velocity ratio, tripped, after edge velocity adjustment.

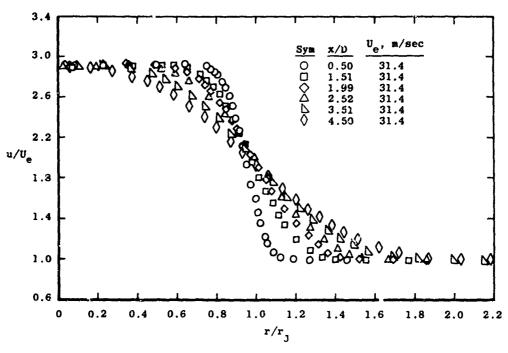


Figure 13. Mean velocity profiles, 3:1 velocity ratio, untripped, after edge velocity adjustment.

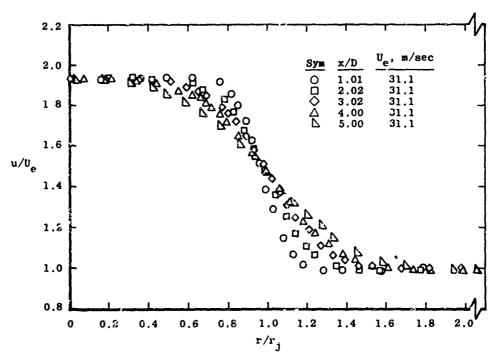


Figure 14. Mean velocity profiles, 2:1 velocity ratio, untripped, after edge velocity adjustment.

For the 1:1 velocity ratio cases, the correction described by Eq. (5) could not be applied, since the deviation in edge velocities represents a larger fraction of the overall velocity change across the mixing region.

If the velocity data are plotted in normalized form against a local half-velocity width (where the half-velocity radius $r_{m\,u}$ is defined as the radius at which $u=1/2(U_e+U_c)$, a profile characteristic of a two-dimensional shear layer is obtained. The data for the 3:1 velocity ratio, tripped-boundary-layer case are shown plotted in this manner in Fig. 15. Note that, from Eq. (5),

$$\frac{\mathbf{u} \cdot \mathbf{U_{eav}}}{\mathbf{U_{jav} \cdot U_{eav}}} = \frac{\mathbf{u_x} \cdot \mathbf{U_{ex}}}{\mathbf{U_{jx} \cdot U_{ex}}}$$

so that it is not necessary to use the adjusted velocity data to prepare a similarity profile as shown in Fig. 15. A similarity plot of the velocity profiles for the 2:1 velocity ratio, tripped-boundary-layer case is shown in Fig. 16. From these figures it is clear that neither the 3:1 velocity ratio nor the 2:1 velocity ratio cases approach a fully developed flow condition in the quasi-two-dimensional shear layer region. A fully developed flow condition is defined as one which exists when the velocity profile shape, suitably normalized, is independent of axial distance.

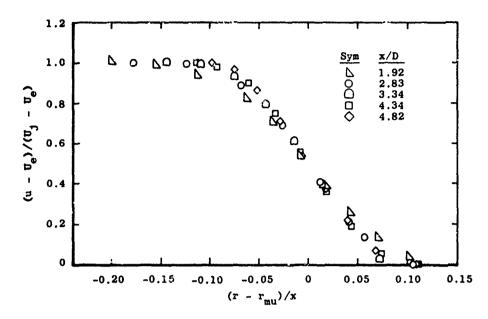


Figure 15. Velocity profiles plotted in two-dimensional shear layer similarity coordinates, 3:1 velocity ratio, tripped.

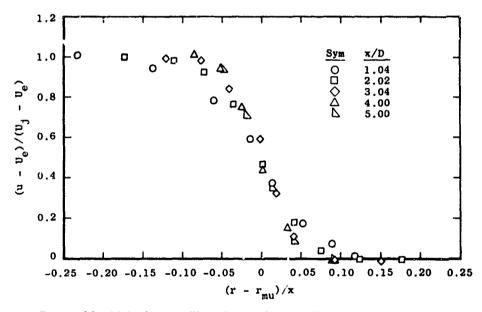


Figure 16. Velocity profiles plotted in two-dimensional shear layer similarity coordinates, 2:1 velocity ratio, tripped.

Evidence that a fully developed flow condition does appear to be approached in the case of the 3:1 velocity ratio, untripped data is shown in Fig. 17; however, the 2:1 velocity ratio, untripped data again do not appear to approach self-similarity (Fig. 18). However, if the value of the spread parameter σ is computed from the velocity profiles

shown in Fig. 1, for the 3:1 velocity ratio case using the definition of σ used at the 1972 NASA-La. gley Working Conference on Free Turbulent Shear Flows (Ref. 6, Vol. II, p. 14), a value of 14.4 is obtained. Since the growth rate of the shear layer is inversely proportional to σ , and the accepted value (Ref. 6) for σ for a two-dimensional shear

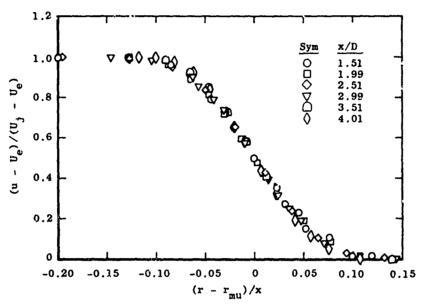


Figure 17. Velocity profiles plotted in two-dimensional shear layer similarity coordinates, 3:1 velocity ratio, untripped.

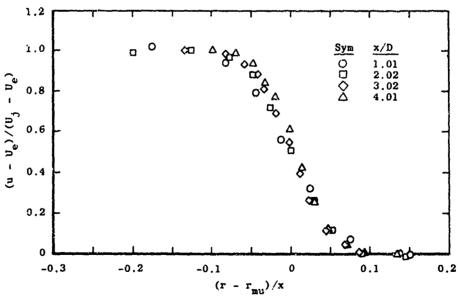


Figure 18. Velocity profiles plotted in two-dimensional shear layer similarity coordinates, 2:1 velocity ratio, untripped.

layer at a velocity ratio of 2.9 is 23.0 (with $\sigma_0 = 11.0$ at $U_e/U_j = 0$), the quasi-two-dimensional shear layer developing between the two coaxial streams in this experiment is growing at a considerably faster rate than would a fully-developed two-dimensional shear layer at this velocity ratio. This would indicate that despite the close approach to profile self-similarity shown in Fig. 17, true fully developed conditions have not been achieved.

The calculation of the turbulent shear stress from integration of the mean velocity data requires a great deal of care, especially in the near field. Although the accuracy of this technique was established in Ref. 2, the measurements reported in that work were obtained in the second regime; no attempt was made to recover values of the turbulent shear stress in the near field. When the technique of Ref. 2 was applied directly to the unsmoothed data, results such as are shown in Fig. 19 were obtained. These data are for the 3:1 velocity ratio, tripped-boundary-layer case. Even when normalized with respect to τ_{mu} , the shear stress at the point at which $u = 1/2(U_e + U_c)$, which in this flow is at or near the peak shear stress point, the shear stress values obtained directly from the unsmoothed data show strong and inconsistent variations, particularly near the edges of the mixing layer.

Shear stress values obtained from the unsmoothed data in the 3:1 untripped boundary-layer case are shown in Fig. 20. As with the tripped results for the same velocity

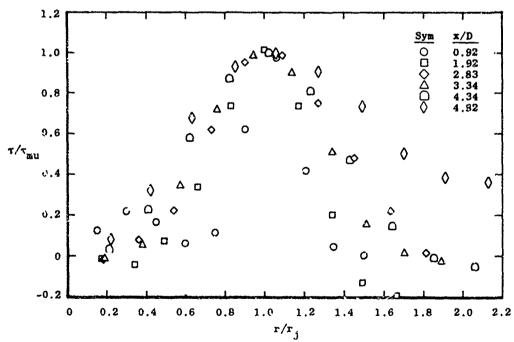


Figure 19. Radial distribution of shear stress, 3:1 velocity ratio, tripped.

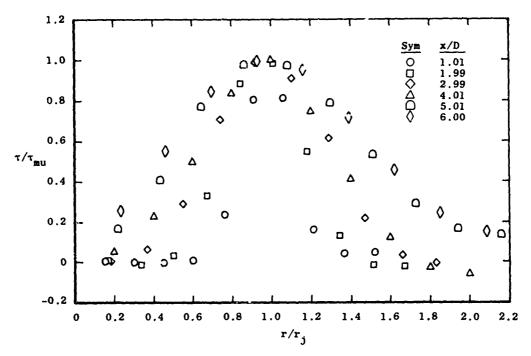


Figure 20. Radial distribution of shear stress, 3:1 velocity ratio, untripped.

ratio, shown in Fig. 19, strong and unsystematic variations are seen, especially at the edges of the mixing region.

When the data smoothed using Eq. (5) are used to obtain shear stress values, results such as those shown in Fig. 21 are obtained. These data are for the 3:1 velocity ratio, tripped-boundary-layer case. When these are compared to the results shown in Fig. 19, it is evident that the use of smoothed profiles as input data to the technique used to obtain the turbulent shear stress does not improve the shear stress results obtained. In particular, the shear stress results do not in general approach zero at the outer edge of the mixing zone in the distributions shown in Figs. 19 through 21. It was clear from these results that neither the raw velocity data nor the smoothed velocity data could be used to obtain reliable shear stress information. A further correction to the data was found to be necessary.

The integration in Eq. (4) is carried out from the flow centerline to the outer edge of the mixing zone, and thus it was recognized that the selection of the centerline location could be an important problem. Through a series of computations, it was determined that small changes in the choice of centerline location, on the order of 1 mm, could result in large deviations in the value computed for the shear stress at the outer edge. In the work described in Ref. 2, in which this method was used to obtain the shear

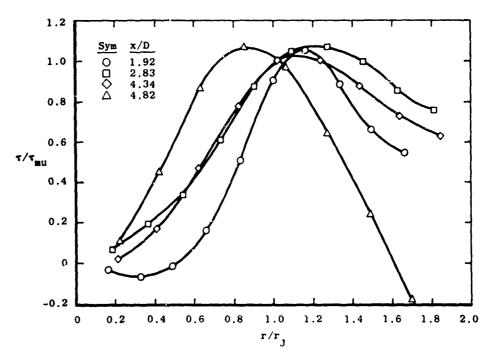


Figure 21. Radial distribution of shear stress, 3:1 velocity ratio, tripped.

stress, the restriction to the second regime allowed an unambiguous choice of centerline, which was obtained by locating the point at which $\partial u \partial r = 0$ on a polynominal curve fit to the measured velocity profile. This technique could not be used in the present work because of the flat velocity profile near the centerline. With this fact in mind, an alternate method was developed, in which the centerline was chosen to be that point which satisfied the physical requirement that the momentum deficit at each axial station be constant. Thus,

$$\int_{0}^{\tau_{e}^{*}} \rho u(u - u_{e}^{*}) r dr = constant$$
 (6)

where r_e^* is the outer edge of the mixing layer; i.e., for $r > r_e^*$, $u = U_e^*$. All shear stress data were obtained after centerline adjustment according to Eq. (6).

This technique requires that the shear stress at the outer edge approach zero. It should be noted that in no case did satisfying Eq. (6) require a deviation of more than 1.5 mm from the centerline obtained from the velocity profile shape; the average size of the correction for all profiles was 0.45 mm.

Shear stress data obtained using velocity profiles adjusted according to Eq. (5) and flow centerlines adjusted according to Eq. (6) are shown in Fig. 22 for the 3:1 velocity

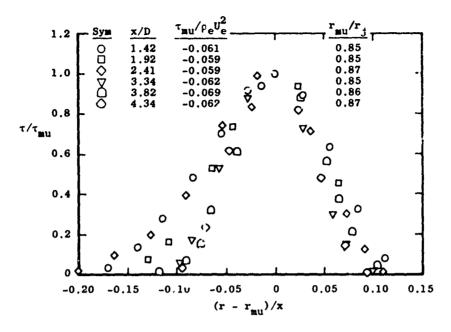


Figure 22. Turbulent shear stress in two-dimensional shear layer similarity coordinates, 3:1 velocity ratio, tripped.

ratio, tripped initial-boundary-layer case. A considerable reduction in data scatter is evident in this figure when it is compared to Figs. 19 and 21. Neither this figure nor Fig. 23, in which shear stress data for the 2:1 velocity ratio, tripped-boundary-layer case is presented, shows any evidence that self-similarity of the turbulent shear stress profiles has been achieved.

Shear stress results for the untripped boundary-layer cases are shown in Figs. 24 and 25 for the 3:1 velocity ratio case and the 2:1 velocity ratio case, respectively. As shown in Fig. 24, the shear stress results for the 3:1 velocity ratio, untripped boundary-layer case show an approach to shape similarity. However, if fully developed conditions had been reached, the value of $\tau_{m\,u}$ would be expected to be a constant, and as the data in the table included in Fig. 24 show, this did not occur. Hence, fully developed conditions were not reached in this quasi-two-dimensional shear layer or in other cases investigated in this study.

3.4 SELF-CONSISTENCY CHECK

Because of the number of assumptions inherent in the calculation of the shear stress from the experimental velocity profiles, a back-calculation procedure such as that described in Ref. 2 was carried out. In this procedure, the computed shear stresses were used in a finite-difference computer program similar to that used in Ref. 3 to compute the development of the mean flow field; i.e., a table of experimental shear stresses was used

in place of an eddy viscosity model in the calculation procedure. The computed mean velocity profiles were compared with the experimental profiles from which the shear stresses were obtained. In the computation reported in Ref. 2, it was found that generally good

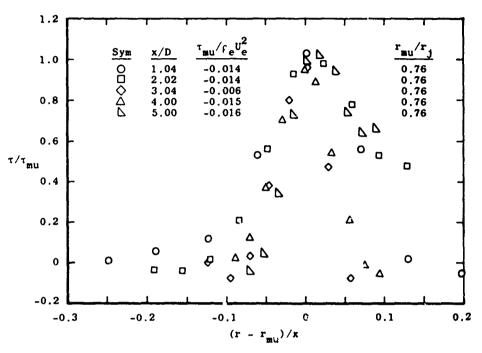


Figure 23. Turbulent shear stress in two-dimensional shear layer similarity coordinates, 2:1 velocity ratio, tripped.

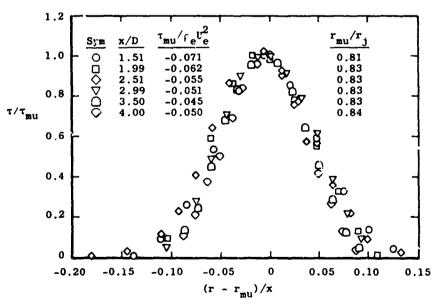


Figure 24. Turbulent shear stress in two-dimensional shear layer similarity coordinates, 3:1 velocity ratio, untripped.

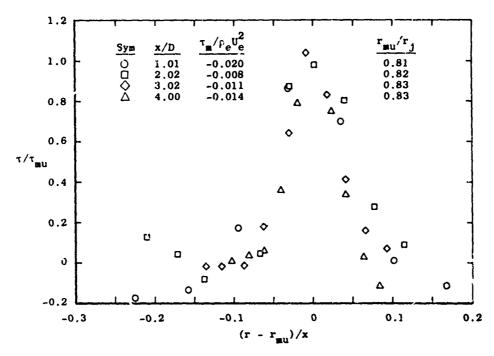


Figure 25. Turbulent shear stress in two-dimensional shear layer similarity coordinates, 2:1 velocity ratio, untripped.

agreement between computed and measured velocity profiles was achieved from the centerline of the flow to the half-velocity point, $r = r_{m\,u}$, in comparisons in the second regime of mixing (Fig. 1). For $r > r_{m\,u}$, some discrepancies appeared which can be ascribed to the difficulties encountered in measuring velocities at the outer, low velocity edge of the mixing region, and to difficulties in predicting the exact rate of spread in the mixing layer. In the flow fields considered in this study the comparison problem is compounded: the mixing region spreads both away from and towards the axis, and large regions of small velocity gradient and low shear stress exist at both edges of the flow field.

In general the results of the data recalculation for these data are consistent with the degree of scatter observed in the calculated shear stress data. Results for the 3:1 velocity ratio and 2:1 velocity ratio, tripped boundary-layer cases are shown in Figs. 26 and 27, respectively. For the 3:1 velocity ratio case, the prediction of the spatial location of the half velocity point is incorrect, so that all of the predicted profiles are shifted relative to the data. If the calculated profiles are altered so that the predicted and actual locations of the half-velocity radius coincide, the velocity profile comparison is improved for $r < r_{mu}$. However, for $r > r_{mu}$, the computed and experimental velocity profiles still do not agree. A similar problem is apparent in the 2:1 velocity ratio comparison shown in Fig. 27. Here the prediction of r_{mu} as a function of x is somewhat better than in the comparison shown in Fig. 26 but still is not correct compared to the experiment.

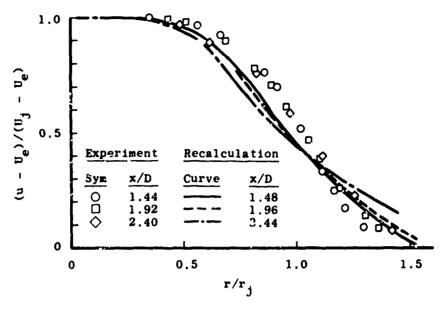


Figure 26. Results of data recalculation, 3:1 velocity ratio, tripped boundary-layer case.

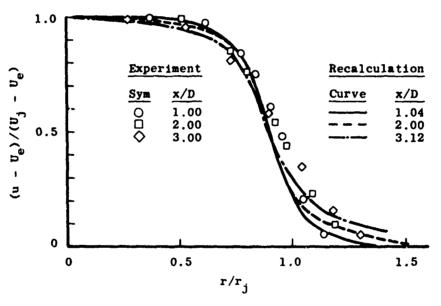


Figure 27. Results of data recalculation, 2:1 velocity ratio, tripped boundary-layer case.

Profile shapes and overall widths do appear to be reasonably well predicted using the measured shear stress values.

Because of the generally higher velocity gradients (and thus larger shear stresses) observed in the shear layers which developed from untripped boundary layers, less scatter is

apparent in the shear stress profiles obtained from the untripped flow-field data. Similarly, the results of the velocity profile recalculation for these cases are better than for the tripped cases. The results of the data recalculation for the untripped boundary layer, 2:1 velocity ratio case are shown in Fig. 28. Again the prediction of $r_{m,u}(x)$ is incorrect; however, the predicted profile shape and development compare well with experiment.

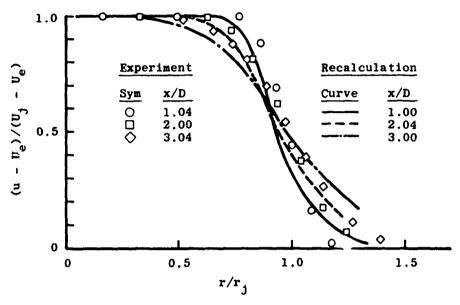


Figure 28. Results of data recalculation, 2:1 velocity rain, untripped boundary-layer case.

The most consistent shear stress results were obtained for the 3:1 velocity ratio, untripped boundary-layer case. This case also shows the best agreement between measured velocity profiles and those obtained from the shear stress profiles by the data recaiculation procedure (Fig. 29). In this case the development of $r_{m\,u}(x)$ is reasonably well predicted, and the predicted and measured profiles agree quite well for $r \le r_{m\,u}$. For $r > r_{m\,u}$, some discrepancies again appear, indicating that the computed shear stress values obtained from these experiments may be in error near the outer edge of the flow field.

In summary, the results of this data recalculation procedure tend to substantiate the validity of the shear stress data obtained from the measured mean velocity profiles, at least in the neighborhood of the peak shear point. The results of the recalculation must be interpreted with care because of the differences between the predicted and measured entrainment rates in the free shear layer region of the flow, since these differences affect the location of the half-velocity point, $r_{m\,u}$. Near the outer edge of the flow field, the computed shear stresses may be substantially in error because of the low velocity levels and velocity gradients which exist in this portion of the flow field. This failure of the

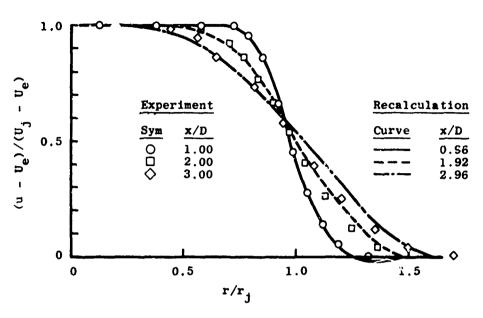


Figure 29. Results of data recalculation, 3:1 velocity ratio, untripped boundary-layer case.

momentum integral technique for obtaining the turbulent shear stress was also observed in the second .egime results described in Ref. 2.

4.0 COMPARISON OF RESULTS WITH ANALYTICAL PREDICTIONS

4.1 GENERAL

The proper prediction of the flow field in the developing region is essential for the overall prediction of the coaxial jet-mixing process. Several analytical models for the turbulent free-mixing flow field have recently been proposed which attempt to include the flow "history" by solving transport equations for some parameters characteristic of the turbulence structure simultaneously with the momentum equation. Although several of these models have been shown (Ref. 6) to predict the second regime and far field of jets quite well, their applicability to the developing region has not been specifically demonstrated, and, indeed, has been seriously questioned, for example by Durao and Whitelaw (Ref. 5). In order to investigate the applicability of "history-type" models to the near-field region, co-culations of the flow field represented by these experiments have been carried out using two analytical models. The simpler of these models, the "one-equation model", uses the turbulent kinetic energy equation and an algebraic relationship between the turbulent kinetic energy and the turbulent shear stress to obtain spatial distributions of the shear stress. A dissipation length scale enters the turbulent kinetic energy equation, and this is defined algebraically in terms of the local width of the mixing layer. The more complex three-equation model involves the solution of three

simultaneous transport equations, in addition to the momentum and continuity equations, for the turbulent shear stress, the turbulent kinetic energy, and the turbulent kinetic energy dissipation rate.

In order to start a calculation, the one-equation model requires a radial profile of the velocity and the turbulent kinetic energy at the initial plane. The three-equation model requires initial profiles of the velocity, turbulent kinetic energy, turbulent shear stress, and TKE dissipation rate. For a typical engineering calculation, more than the mean velocity profile is rarely available. Thus, to be useful for engineering purposes, methods for the estimation of the initial profiles must be developed. Such a method has been developed for the one-equation model, as described in Refs. 8 and 14. The application of the same technique to the three-equation model is described in this report.

4.2 ONE-EQUATION MODEL

In boundary-layer form, the governing equations for the axisymmetric incompressible flow field, with zero axial pressure gradient, are as follows:

Continuity:

$$\frac{\partial u}{\partial x} + \frac{1}{r} \frac{\partial}{\partial r} (vr) = 0$$
 (7)

and

Momentum:

$$\rho u \frac{\partial u}{\partial x} + \rho v \frac{\partial u}{\partial r} = \frac{1}{r} \frac{\partial}{\partial r} (rr)$$
 (8)

The solution of this set of equations requires knowledge of the turbulent shear stress, $\tau(x,r)$. In the one-equation model the relationship

$$\tau = a_1(r)\rho k \tag{9}$$

is used to relate the turbulent shear stress, τ , to the turbulent kinetic energy, k. Although a_1 (r) is in general a function of the lateral coordinate, in this work it has been taken to be numerically constant, both axially and radially, with the value 0.3, and with its sign defined by the local velocity gradient. The spatial distribution of TKE is then obtained from the solution of the appropriate transport equation, written in boundary-layer form as

$$\rho u \frac{\partial k}{\partial x} + \rho v \frac{\partial k}{\partial r} = \frac{1}{r} \frac{\partial}{\partial r} \left(\frac{\mu_T r}{P r_k} \frac{\partial k}{\partial r} \right) + \tau \frac{\partial u}{\partial r} - \rho \epsilon$$
 (10)

In Eq. (10), μ_T is the turbulent momentum diffusivity, obtained from the relation

$$\mu_{\rm T} = \tau / \left(\frac{\partial u}{\partial r} \right) \tag{11}$$

 Pr_k is a Prandtl number for turbulent kinetic energy diffusion, given the value 0.7, and ϵ represents the TKE dissipation rate, given by

$$\epsilon = \frac{a_2 \rho k^{3/2}}{\ell_k} \tag{12}$$

In Eq. (12) ℓ_k is a characteristic length scale, and $a_2 = 1.69$. The length scale is related to the geometry of the mixing layer in one of two ways. In regions of the flow field in which a velocity profile minimum exists in the interior of the viscous region, the relation

$$\ell_k = |r_2 - r_1| \tag{13a}$$

is used, where r_2 represents the radius at which $(u - U_e)/(U_2 - U_1) = 0.10$ and r_1 the radius at which $(u - U_j)/(U_2 - U_1) = 0.90$. The symbols U_1 and U_2 represent the maximum and minimum velocities encountered in the shear layer at a given cross section, respectively. In the fully developed shear layer region, where the velocity profile approximates a cosine shape, l_k is given by

$$\ell_{k} = \frac{\pi}{2} \left| U_{j} - U_{e} \right| \left/ \left(\frac{\partial u}{\partial r} \right) \right. \tag{13b}$$

evaluated at the radial position where the magnitude of the shear stress is a maximum. In order to provide a transition between the length scales defined by Eqs. (13a) and (13b), Eq. (13b) is used when the length scale it predicts is larger than that predicted by Eq. (13a). Further details of this model are given in Ref. 14.

4.3 THREE-EQUATION MODEL

The multi-equation model was developed for planar flows by Hanjalic' and Launder (Ref. 9). In the present work it has been generalized to axisymmetric flow following the approach of Fodi (Ref. 15), who showed that for axisymmetric flows an additional diffusion term appears in the equation for the Reynolds shear stress. This term, which becomes most important for a small radial coordinate, r, involves the w' component of the turbulent kinetic energy and has been modeled in this work following the relationships proposed for planar flow by Rodi (Ref. 15). The result, for incompressible flow, is the following three equations, to be solved simultaneously with the momentum and continuity equations:

For the Reynolds shear stress,

$$u \frac{\partial \tau}{\partial x} + v \frac{\partial \tau}{\partial r} = \frac{C_D}{\sigma_T} \frac{1}{r} \frac{\partial}{\partial r} \left(\frac{k^2 r}{\epsilon} \frac{\partial \tau}{\partial r} \right) - C_{D2} \frac{k^2}{\epsilon} \frac{\tau}{r^2} - w \left(\frac{\epsilon \tau}{k} - C_D \rho k \frac{\partial u}{\partial r} \right)$$
(14)

(where the term $C_D(k^2/\epsilon)$ (τ/r^2) represents the additional diffusion term).

For the turbulent kinetic energy, k,

$$u \frac{\partial k}{\partial x} + v \frac{\partial k}{\partial r} = \frac{C_D}{\sigma_k} \frac{1}{r} \frac{\partial}{\partial r} \left(\frac{k^2 r}{\epsilon} \frac{\partial k}{\partial r} \right) + \frac{\tau}{\rho} \frac{\partial u}{\partial r} - \epsilon$$
 (15)

and for the turbulent kinetic energy dissipation,

$$u \frac{\partial \epsilon}{\partial x} + v \frac{\partial \epsilon}{\partial r} = \frac{C_D}{\sigma_{\epsilon}} \frac{\partial}{\partial r} \left(\frac{k^2 r}{\epsilon} \frac{\partial \epsilon}{\partial r} \right) + C_1 \frac{\tau \epsilon}{\rho k} \frac{\partial u}{\partial r} - C_2 \frac{\epsilon^2}{k}$$
 (16)

The constants used in these equations are

as given by Rodi (Ref. 15) for planar flow; $C_{D\,2}=0.18$ was chosen in analogy to Rodi's work in obtaining Eq. (14) for two-dimensional flow. Equations (7), (8), and (14) through (16) form a complete set; no further modeling is necessary.

4.4 INITIAL CONDITIONS

It is, of course, necessary to specify initial conditions in order to numerically solve the parabolic differential equations involved in both models. For the one-equation model, this requires specification of initial profiles of the mean velocity and the turbulent kinetic energy or the turbulent shear stress, whereas the three-equation model requires both turbulent kinetic energy and turbulent shear stress profiles and, in addition, a profile of the TKE dissipation rate.

For both models, the measured initial boundary-layer profile shapes were used for the velocity profiles, with the velocity levels adjusted so that the edge velocities agreed with the average jet and free-stream velocities observed for each test. Both calculations began with initial shear stress profiles obtained from the boundary-layer eddy viscosity profiles calculated by Maise and McDonald (Ref. 16) for flat plate boundary layers. Equation (9), with $a_1 = 0.3$, was used to evaluate the initial turbulent kinetic energy profiles needed to begin both calculations, and the initial dissipation distribution needed as an initial condition in the three-equation model was obtained from Eq. (12), using the Prandtl-Kolmogorov relation (Eq. (2) of Ref. 10) to eliminate ℓ_k and using Eq. (9) to eliminate τ ; the result is

$$\epsilon_{\text{inital}} = 3.5 \text{ C}_{\text{D}} \text{k} \frac{\partial u}{\partial r}$$
 (17)

For simplicity, the flow field was assumed to be at constant density in all calculations. For the 3:1 velocity ratio, untripped boundary-layer case described below, the experimental density ratio, ρ_j/ρ_e was 0.95. A few calculations were carried out (using the one-equation model) with the density variation included. These showed that this small deviation from constant density has no significant effect on the comparisons presented.

4.5 NUMERICAL TECHNIQUE

Both calculations were carried out with versions of the numerical framework developed by Patankar and Spalding (Ref. 17). The numerical framework used with the one-equation model incorporates several modifications which are described in Refs. 3 and 14. All calculations made with the three-equation model were carried out using a modification of a deck supplied by Dr. B. E. Launder of Imperial College, in London.

4.6 COMPARISON OF COMPUTED RESULTS WITH EXPERIMENTAL DATA

The mean velocity profiles predicted by the two flow models are compared with experimental data for the 3:1 velocity ratio, tripped boundary-layer case, in Fig. 30. In all cases presented in this section, the predictions have been carried out without altering the constants used in the two models. Thus no attempt has been made to produce an optimum prediction of this particular flow field. It is clear from Fig. 30 that both models produce a reasonably good prediction of the data for this flow field, although both underpredict the rate of spread of the shear layer to some extent. Because the spread rate of the shear layer is underpredicted, an underprediction of the peak shear stress would also be expected, and this expectation is borne out in Fig. 31. Note that the one-equation model shear stress prediction is considerably closer to the shear stresses deduced from the experimental results; this agrees with the indication in Fig. 30 that the one-equation model prediction of the mean velocity profile is more consistent with the data than is the prediction of the three-equation model.

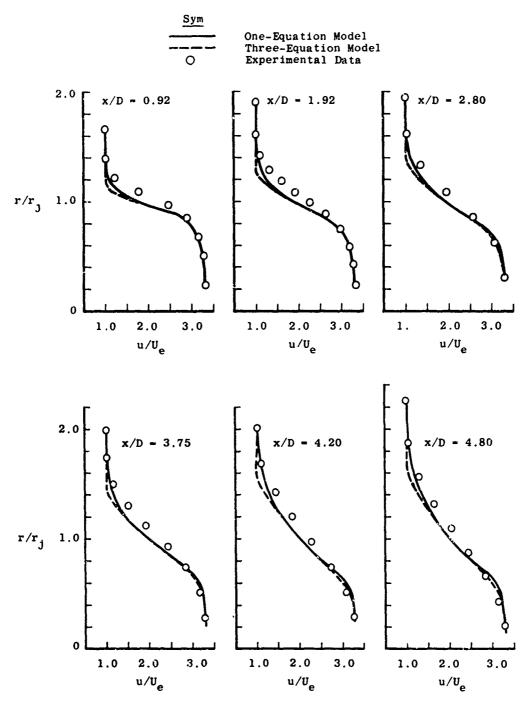


Figure 30. Comparison of experimental and theoretical velocity profiles, 3:1 velocity ratio, tripped.

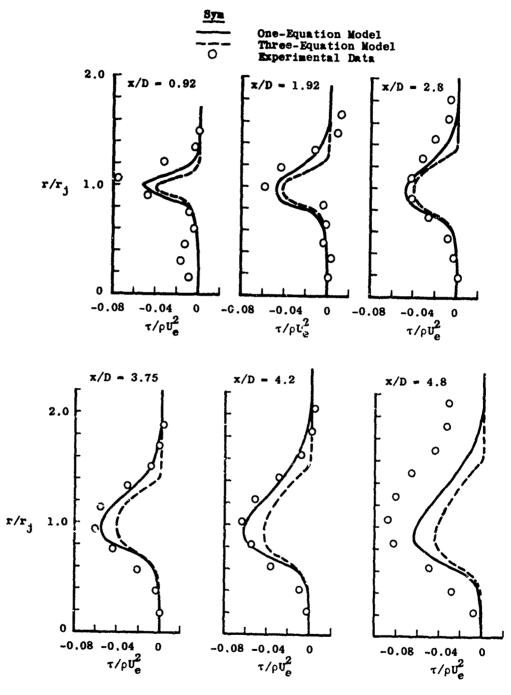


Figure 31. Comparison of predicted and measured shear stress profiles, 3:1 velocity ratio, tripped.

Predicted and experimental mean velocity profiles are shown in Fig. 32 for the 3:1 velocity ratio, untripped boundary-layer case. Here a substantial difference in predicted and measured shear layer width is apparent, and again, a comparison of predicted and measured shear stress profiles (Fig. 33) shows that the peak shear stress in this flow is relatively strongly underpredicted. Both the one-equation and three-equation models produce broadly similar predictions of the mean velocity profiles, particularly at the farther downstream station. The differences between the predictions can be seen in greater detail in the shear stress profiles. For this flow field, both models predict substantially the same peak shear stress level, but the three-equation model shows a substantially narrower shear stress profile than the one-equation model predicts. Although this could be a reflection of a reduced diffusion rate of turbulent kinetic energy in the three-equation model as compared to the one-equation model, in the three-equation model the effective diffusion coefficient for TKE is $Pr_k = \sigma_k = 1.0$, whereas in the one-equation model it is $Pr_k = 0.70$. Experience with the one-equation model indicates that this relatively small difference in the diffusion coefficients would not produce a major difference in the computed results.

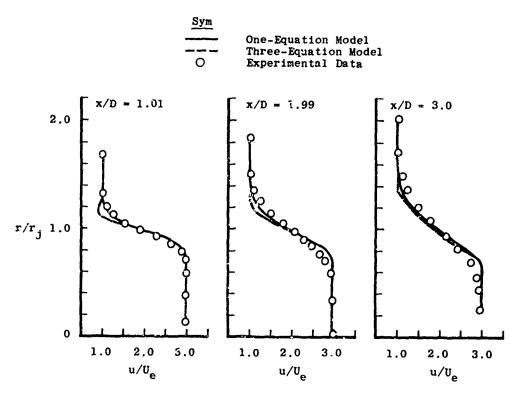


Figure 32. Comparison of predicted and experimental velocity profiles, 3:1 valocity ratio, untripped.

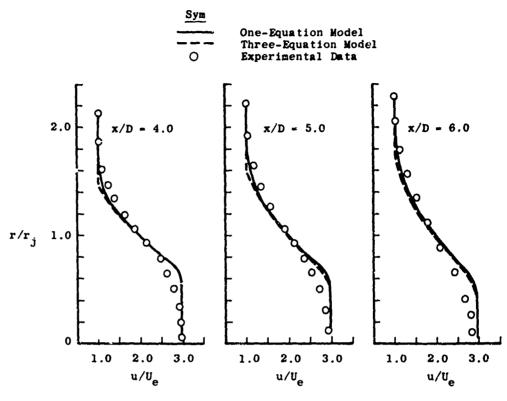


Figure 32. Concluded.

A comparison of experimental and theoretical mean velocity profiles for the 2:1 velocity ratio, tripped initial boundary-layer case is shown in Fig. 34. Here the agreement is quite good for both models; the one-equation model prediction appears to be somewhat better overall. The effect of the initial minimum in the velocity profile (which results from the low velocity region at the nozzle lip) again appears to persist longer in the three-equation model prediction than in the one-equation model prediction. Shear stress predictions are compared with the shear stresses deduced from the measured mean velocity distribution in Fig. 35. Because the velocity profile shape and growth rate appear to be well predicted by both models (Fig. 34), it would be expected that the level and distribution of the shear stress were also well predicted. However, the considerable scatter in the peak shear stress values obtained from the measured data in this case does not allow a firm conclusion to be drawn. On the other hand, the predicted peak shear stress is reasonably constant at a value of $\tau/\rho_e U_e^2 \simeq 0.010$, and this appears to be a reasonable average value for the experimental data. The data at x/d = 5.00 were clearly in error and are omitted from Fig. 35. Note once again that the three-equation model predicts a slightly higher peak shear stress than does the one-equation model, but with a somewhat narrower shear stress profile.

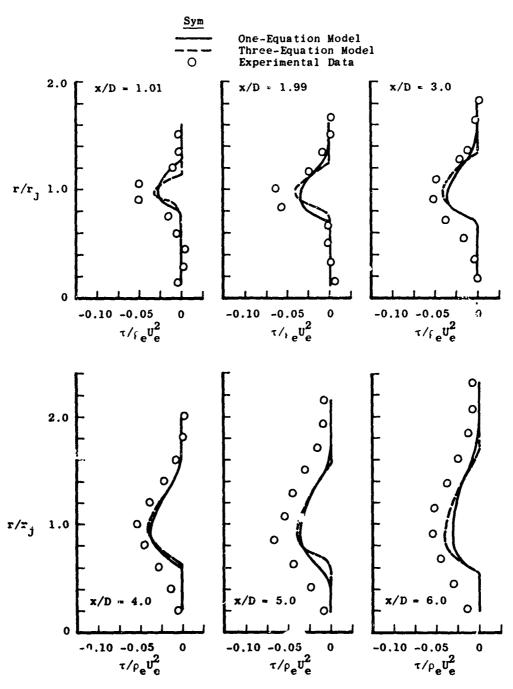


Figure 33. Comparison of predicted and experimental shear stress profiles, 3:1 velocity ratio, untripped.

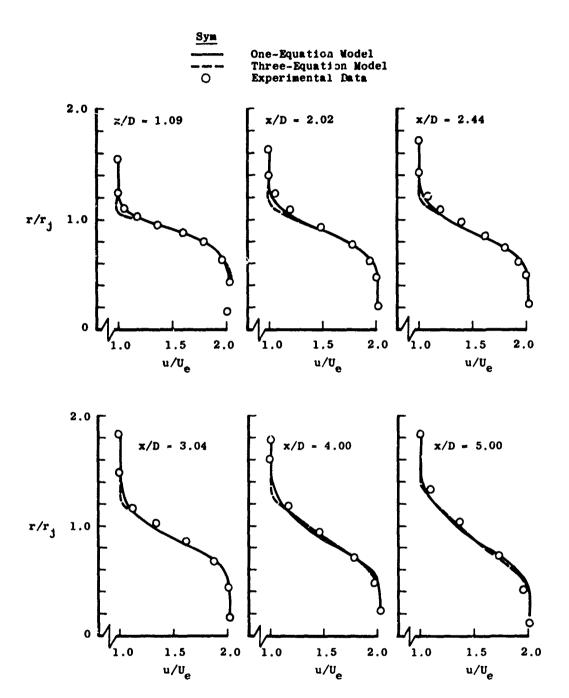


Figure 34. Comparison of predicted and experimental velocity profiles, 2:1 velocity ratio, tripped.

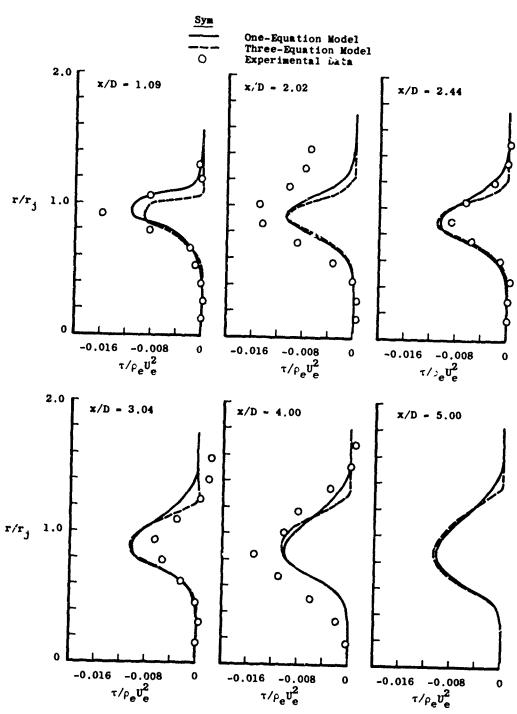


Figure 35. Comparison of predicted and experimental shear stress profiles, 2:1 velocity ratio, tripped.

As was the case in the velocity ratio 3:1 data, the overall prediction of the untripped initial boundary-layer case for the 2:1 velocity ratio (Fig. 36) is not as good as for the tripped boundary-layer case (Fig. 34). Both predictions are in reasonable agreement, and neither agrees in all details with the experimental data. One explanation for this observation is that the untripped initial boundary-layer cases involve larger velocity gradients near the jet exit than the tripped boundary-layer cases. The increased momentum diffusion resulting from these large gradients destroys the initial condition effects more rapidly than the theory predicts and sets up an increased shear layer growth rate. As is shown in Fig. 37, the peak shear stress for this flow is again strongly underpredicted, as it was in the 3:1 velocity ratio, untripped initial boundary-layer case.

Predictions for the 1:1 velocity ratio cases are compared with experimental data in Figs. 38 and 39 for the tripped and untripped cases, respectively. In these cases it was not possible to obtain reliable shear stress data; therefore, only velocity profile comparisons are shown here. It is clear from these figures that neither model is capable of producing an accurate prediction of these weak-shear cases. Although the one-equation model does predict the rapid reduction of the initial velocity minimum, it also predicts a large region of nearly zero velocity gradient in the central part of the flow field. A relatively large region of low velocity gradient is also apparent in the data, but it is not of the exaggerated extent that the one-equation model predicts.

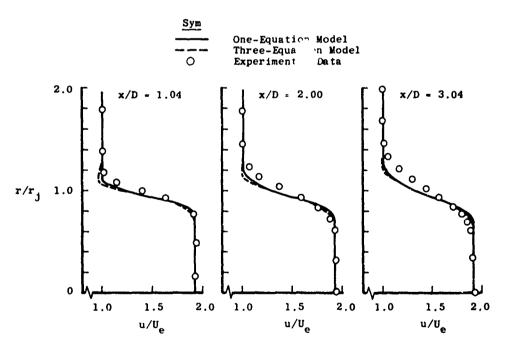


Figure 36. Comparison of predicted and experimental velocity profiles, 2:1 velocity ratio, untripped.

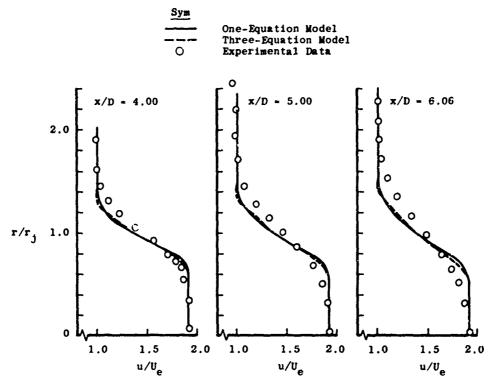


Figure 36. Concluded.

On the other hand, the predicted slow lateral growth of the shear layer observed in comparisons of the three-equation model with experimental data in the other cases considered is even more strongly apparent in this case. The three-equation model considerably overpredicts, in both cases, the magnitude of the velocity deficit in all profiles shown and also underpredicts the width of the mixing region. Interestingly enough, both models predict substantially the same shape for the inner edge of the velocity field. However, neither calculation appears to be satisfactory in these flows.

To summarize the results shown in this section, both the one-equation and three-equation models appear to adequately predict the mean flow field in the larger velocity ratio, stronger-shear cases. Both models are capable of providing reasonably accurate predictions of the flow in the near field of a coaxial mixing process without change to their empirical content and using estimated initial conditions to provide a start line, in moderately strong shear flows. However, difficulties are encountered in weak-shear flows; these difficulties seem to be more related to inadequacies in the models than to the initial condition technique, as the results described in the following section will show.

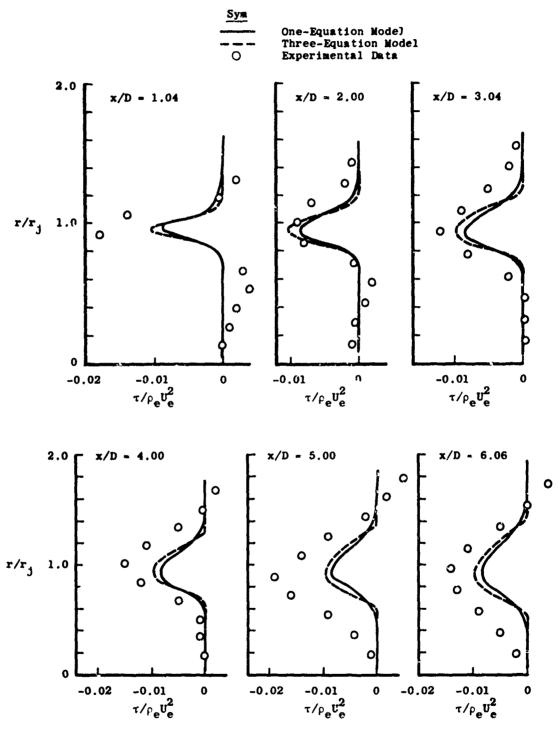


Figure 37. Comparison of predicted and experimental shear stress profiles, 2:1 velocity ratio, untripped.

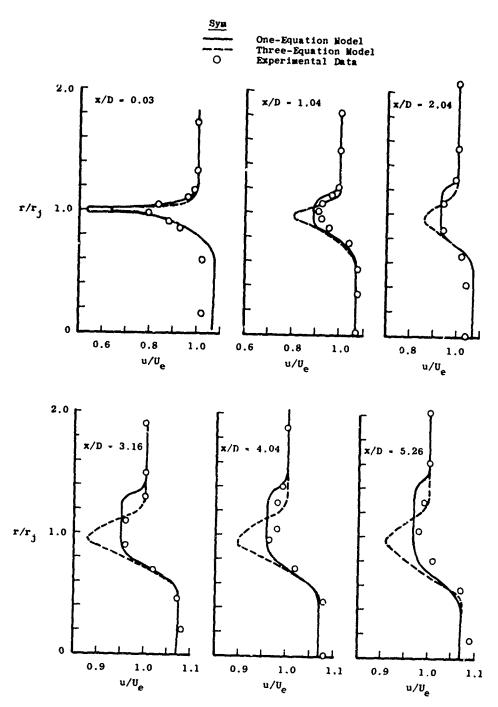
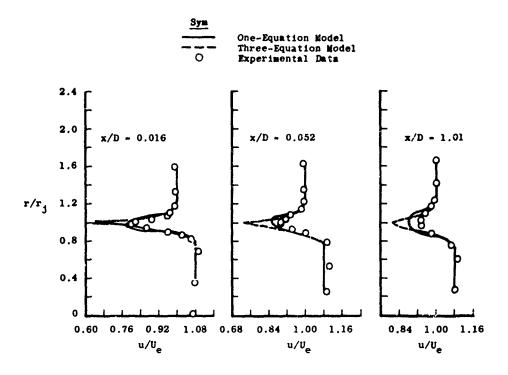


Figure 38. Comparison of prediction with experiment, 1:1 velocity ratio, tripped initial boundary layers.



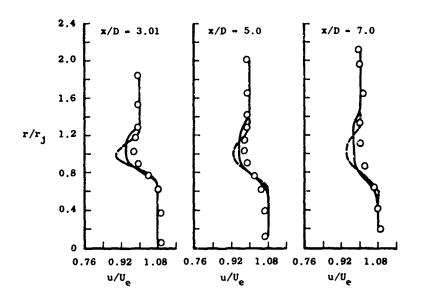


Figure 39. Comparison of prediction and experiment, 1:1 velocity ratio, untripped initial boundary layers.

4.7 COMPARISON OF MODELING DETAILS

In the three-equation model of turbulence developed by Hanjalić and Launder (Ref. 9), transport equations are written for the turbulent kinetic energy, the turbulent shear stress, and the turbulent kinetic energy dissipation rate. A formal relationship between the turbulent shear stress and the turbulent kinetic energy is thus dispensed with, and, since the turbulent kinetic energy dissipation rate can be considered to be proportional to $k^{3/2}/\ell_k$ (where ℓ_k is a characteristic turbulence length scale), the transport equation for TKE dissipation rate can be thought of as describing the spatial development of the length scale.

In the one-equation model, length scale distributions are assumed <u>a priori</u>, and a direct relationship between the turbulent shear stress and turbulent kinetic energy is presumed to exist. The relation between shear and TKE is given by Eq. 9, with $a_1 = 0.3$. It is of interest to compare this relationship with that implied by the simultaneous solution of the shear stress and TKE transport equations carried out in the three-equation model.

The spatial distribution of $a_1 = \tau/\rho_k$ implied by the three-equation model in the calculation of the 3:1 velocity ratio, untripped initial boundary-layer data is shown in Fig. 40. Clearly, over the greater region of the flow, the value $a_1 = 0.3$ assumed in the one-equation model is in good agreement with the distribution predicted by the three-equation model. Deviations near the edges are apparent. However, in the one-equation model prediction, except for the 1:1 velocity ratio predictions, it has been found expedient

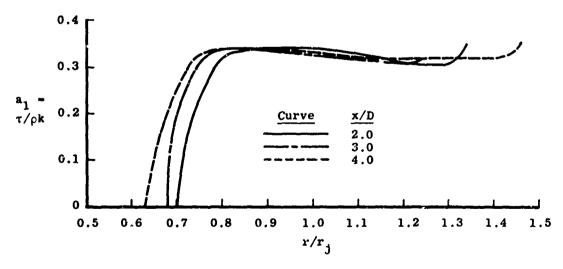


Figure 40. Implied distribution of a₁, three-equation model, 3:1 velocity ratio, untripped.

to "freeze" the local eddy viscosity $\epsilon = \tau/\rho(\partial u/gr)$ at points for which $(u - U_e)/(U_j - U_e) > 0.95$ and for which $(u - U_e)/(U_j - U_e) < 0.05$, so that in the one-equation model $a_1 = 0.3$ is not in fact used at the edges of the mixing region where deviations from a constant value of a_1 are also implied by the three-equation model.

In the 2:1 velocity ratio, untripped boundary-layer case, the implied value of a_1 exhibits a change of sign for the x/D=2.0 profile, Fig. 41. This is a result of the persistence of the initial boundary layer in this relatively weaker shear field. Again, the value of 0.3 assumed for a_1 in the one-equation model prediction is in reasonable agreement with the three-equation model prediction of a_1 over the greater region of the flow. In the one-equation formulation the sign of a_1 is provided by the factor $(\partial u/\partial r)/|\partial u/\partial r|$ and so the change of sign exhibited in the x/D=2.0 profile of Fig. 41 would also be apparent in the a_1 profile assumed in the one-equation model, albeit without the relatively gradual transition shown in Fig. 41.

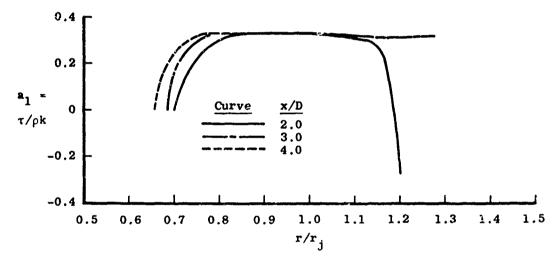


Figure 41. Implied distribution of a₁, three-equation model, 2:1 velocity ratio, untripped.

The initial minimum in the velocity profile persists throughout the flow field in the 1:1 velocity ratio calculation. This is reflected in the a_1 distribution obtained from the 1:1 elocity ratio, untripped initial boundary-layer prediction shown in Fig. 42, which shows a large variation in the a_1 profile across the shear layer. It may be recalled that for this velocity ratio the predicted flow field developed considerably slower than the experimental flow field, and this slowness can be at least partly attributed to deficiencies in the modeling of turbulent shear stress diffusion in this weak shear flow. Note, however, that the agreement of the computed value of a_1 with the assumed value of 0.3 is quite good in the region of peak shear stress.

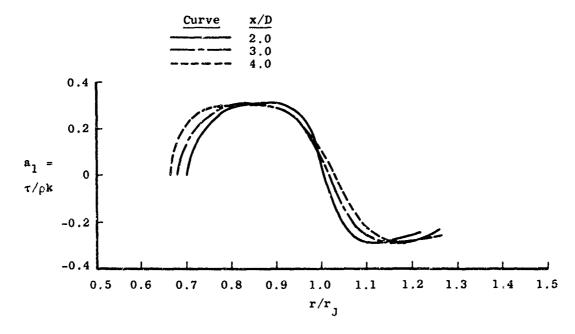


Figure 42. Implied distribution of a₁, three-equation model, 1:1 velocity ratio, untripped.

Length scale distributions were also computed from the three-equation model predictions, and these may be compared with the assumption used in the one-equation model. The one-equation model assumptions for the turbulence length scale are indicated by equations (13a) and (13b). In this discussion the length scale used in the three-equation model is designated \hat{x}_{k_3} ; the length scale that would be used in a calculation of the corresponding flow field carried out using the one-equation model is designated ℓ_{k_1}

The implied length scale distribution obtained from the three-equation model prediction of the 3·1 velocity ratio, untripped boundary-layer data is shown in Fig. 43. In both this and the 2:1 velocity ratio case, shown in Fig. 44, considerable variation in the length scale is observed, although $\ell_{k_3}/\ell_{k_1}=1.0$ provides a reasonable average value in both cases. Simi¹ r predictions of the flow fields were obtained at these two velocity ratios by both models, despite the wide variation in length scales observed in Figs. 43 and 44. A possible reason that substantially similar results are achieved despite the wide variation is that in the one-equation model the turbulence length scale enters only the dissipation term on the right hand side of the turbulent kinetic energy equation. In the three-equation model the length scale, in effect, enters the diffusion, production, and dissipation terms of the TKE equation. Hence, modeling of the details of the length scale distribution is considerably more important in the limitality and Launder three-equation formulation than it is in the one-equation model.

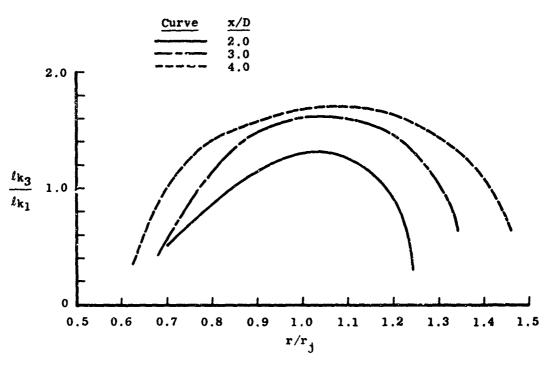


Figure 43. Implied distribution of two 'ence length scale, 3:1 velocity ratio, untripped.

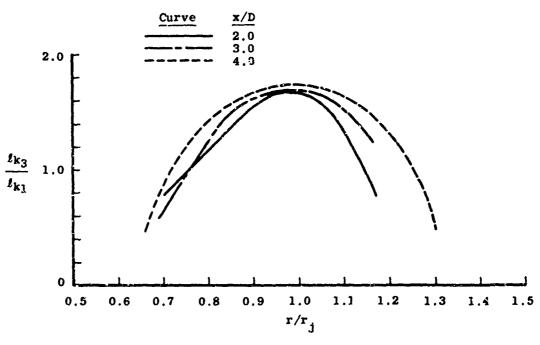


Figure 44. Implied distribution of turbulence length scale, 2:1 velocity ratio, untripped.

Implied length scale distributions for the 1:1 velocity ratio case are shown in Fig. 45. Here the value $\ell_{k_3}/\ell_{k_1}=1.0$ provides an upper limit for the three-equation model prediction. Comparison of the length scale distributions for the three velocity ratio cases, Figs. 43 through 45, shows that the distribution obtained from the three-equation model prediction most closely corresponds to that assumed in the one-equation model prediction in the 1.1 velocity ratio case. Yet the agreement between the two model predictions is poorest in this case. This implies that in these flow fields the modeling of the TKE dissipation term is relatively unimportant, and it further strengthens the conclusion that the effect of the diffusion term in the TKE and shear stress equations, Eqs. (14) and (15), is more significant, at least in weak shear flows.

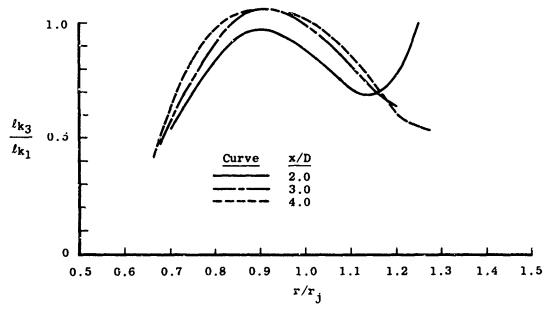


Figure 45. Implied distribution of turbulence length scale, 1:1 velocity ratio, untripped.

4.8 EFFECTS OF ALTERATION OF INITIAL CONDITION

As was described in Section 4.3, the eddy viscosity profiles computed by Maise and McDonald (Ref. 16) for a variety of boundary-layer flows were used to generate the initial shear stress and turbulent kinetic energy profiles necessary to begin the calculations described in this report. These eddy viscosity profiles represent one of the best estimates currently available for boundary-layer shear stress levels. However, the question of the effects of misestimation of initial levels remains relevant. Since it was not possible to directly measure the initial shear stress and turbulent kinetic energy levels in this experiment, two sets of computer experiments were carried out to observe the effects

of changes in the initial shear stress and TKE levels in the calculated flow-field development. In one set of computer experiments a "reasonable" deviation from the Maise and McDonald eddy viscosity levels was assumed, and in the second set an "unreasonable" change was made.

The boundary-layer eddy viscosity profiles obtained by Maise and McDonald (Ref. 16) were computed from the momentum integral equation using law-of-the-wall and law-of-the-wake velocity profiles and the Spalding and Chi wall shear stress formulation (Ref. 12). In Section 3.0 of this report it was shown that the values of turbulent skin friction coefficient obtained from the measured velocity profiles in the boundary layers generated in these experiments were some 19 to 20 percent higher than those obtained from the Spalding and Chi correlation at the same momentum thickness Reynolds numbers. Hence the "reasonable" deviation from the Maise and McDonald levels of eddy viscosity to be discussed in this section involves multiplying the value of μ_T obtained from the Maise and McDonald correlation by a factor of 1.2. In order to establish the effects of a more severe variation in the initial condition, the effect of increasing the initial value of μ_T by a factor of 10 was also investigated.

A variation of 20 percent is the initial level of eddy viscosity has little effect on the predictions made by the one-equation model, as shown in Figs. 46 and 47 for the 3:1 and 1:1 velocity ratios, respectively. As can be seen from these figures, the effect

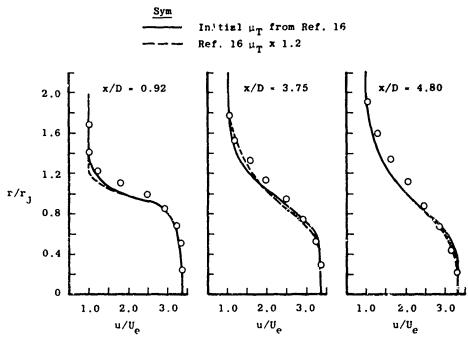


Figure 46. Effect of initial condition on one-equation model prediction, 3:1 velocity ratio, tripped.

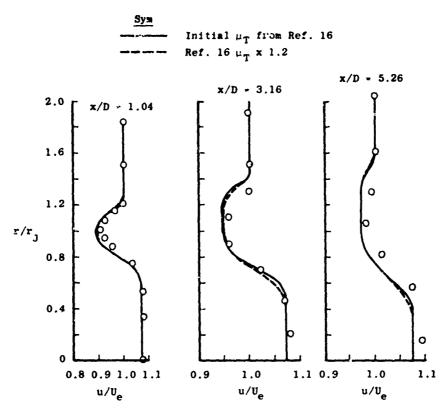


Figure 47. Effect of initial condition on one-equation model prediction, 1:1 velocity ratio, tripped.

of the change of initial conditions has nearly disappeared in both calculations even at x/D = 1. Substantially the same lack of effect is observed in the three-equation model prediction (Figs. 48 and 49). The initial condition change does produce a small improvement in the prediction of the 1:1 velocity ratio data, but this improvement is relatively insignificant.

The effects of an order-of-magnitude change in the eddy viscosity value used for the initial condition are, of course, more marked. (Note that in this and all other comparisons in this discussion the initial eddy viscosity profile shape has not been altered.) In the case of the one-equation model, the order-of-magnitude change considerably alters the flow-field prediction, strongly affecting the velocity profile width and thus also the length of the velocity potential core. The prediction of the 3:1 velocity ratio, tripped boundary-layer case is shown in Fig. 50, from which it can be seen that the velocity potential core is in this calculation predicted to end for x/D < 3.75. More severe effects can be seen in the 1:1 velocity ratio case, Fig. 51. In this calculation not only did the velocity potential core end well before x/D = 3, the computation had predicted mixing to a uniform velocity profile well before x/D = 5. Since the computation cannot proceed

with significant regions in which $\partial u/\partial r = 0$ within the profile, no computation is shown for x/D = 5.26.

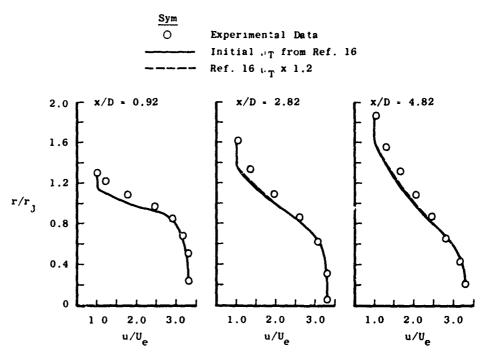


Figure 48. Effect of initial condition on three-equation model prediction, 3:1 velocity ratio, tripped.

Initial condition effects are much less marked for the three-equation model predictions. For example, in the 3:1 velocity ratio, tripped initial boundary-layer case, Fig. 52, an order-of-magnitude change in the initial eddy viscosity level has only a relatively small effect on the velocity profile width. The additional mechanisms for transport of shear stress and dissipation rate (or length scale) inherent in the three-equation model can be seen to markedly reduce the sensitivity of the three-equation model to alteration in the initial condition, compared to the one-equation model in the same flow. A similar effect is seen in the 1.1 velocity ratio, tripped initial boundary-layer case, shown in Fig. 53. Here, however, the increased initial eddy viscosity level results in some distortion of the downstream profile shape. This is particularly evident in the profile at x/D = 3.16 and to a lesser extent in the profiles at x/D = 1.04 and at x/D = 5.26.

5.0 SUMMARY AND CONCLUDING REMARKS

A series of experiments was carried out to investigate mixing phenomena in the near field of coaxial jets. The measurement of the turbulent boundary layers at the nozzle exit plane was emphasized, and a thin nozzle lip was used to minimize regions of recirculation at the initiation of free mixing. Three velocity ratios, $U_i/U_e = 3.2$, and 1

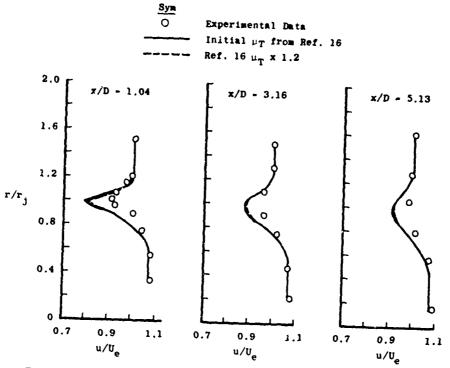


Figure 49. Effect of initial condition on three-equation model prediction, 1:1 velocity ratio, tripped.

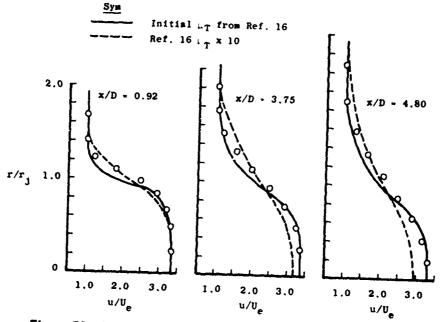


Figure 50. Effect of alteration of initial eddy viscosity profile, one-equation model, 3:1 velocity ratio, tripped.

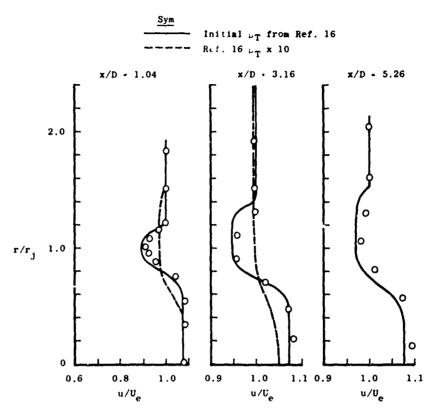


Figure 51. Effect of alteration of initial eddy viscosity profile, one-equation model, 1:1 velocity ratio, tripped.

were investigated, with both tripped and untripped turbulent boundary layers at the nozzle exit plane. Turbulent shear stress profiles were obtained from the mean velocity profiles in the velocity ratio 2 and 3 cases. Although this technique was only marginally successful in the tripped boundary-layer case, reasonably good results were obtained for the untripped boundary layers (which exhibited higher turbulent shear stress levels than the corresponding tripped boundary layers). Velocity profiles for all experimental cases are presented in this report, both in the illustrations and in the data tabulation, Appendix A. Turbulent shear stress profiles are presented in the illustrations.

Experimental results for all velocity ratios investigated were compared with the prediction of two turbulent kinetic energy analytical models for free turbulent mixing. These comparisons were made with the primary purpose of assessing the ability of the models to predict the near-field mean flow development from estimated initial shear stress and turbulent kinetic energy profiles. In one model, only the turbulent kinetic energy equation was used in addition to the continuity and momentum equations, while the second technique included additional simultaneous equations for the turbulent shear stress, the turbulent kinetic energy, and a turbulent length scale.

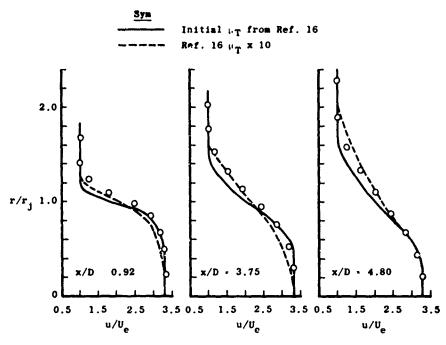


Figure 52. Effect of alteration of initial eddy viscosity profile, three-equation model, 3:1 velocity ratio, tripped.

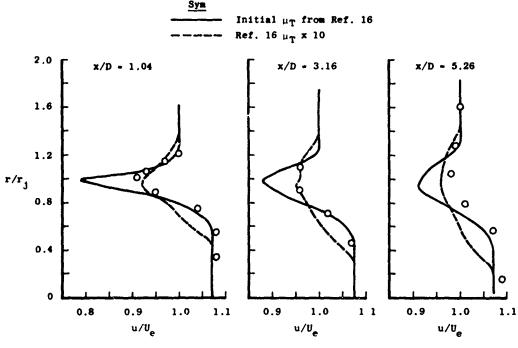


Figure 53. Effect of alteration of initial eddy viscosity profile, three-equation model, 1:1 velocity ratio, tripped.

Nearly similar predictions were obtained from the two models for the 3:1 and 2:1 velocity ratio flows, using the same empirical constants as were used in other flows in both models. Considerable differences between the models were observed in the prediction of the 1:1 velocity ratio case. The evidence presented here indicates that initial condition estimation techniques such as those described in this paper are adequate for both the simple one-equation model and the more complex three-equation model, at least as far as engineering prediction of the mean velocity and shear stress profiles in relatively strong shear flows is concerned. The one-equation model is shown to be more sensitive to alteration of the initial conditions than the three-equation model. This is a consequence of the additional transport inherent in the three-equation model, which allows a faster change of the initial shear stress level from a level characteristic of a boundary layer to one characteristic of a free shear layer.

In weak shear cases (such as the 1:1 velocity ratio data) the effects of inadequacies in the modeling involved in both theoretical treatments becomes more apparent; neither model predicts the correct velocity profiles in detail. To obtain a reasonably adequate representation of the decay of the velocity minimum using the three-equation model requires an initial shear stress level that cannot be justified. Using the one-equation model results in an unacceptably flat velocity profile in this case, although the level of velocity minimum is reasonably well represented.

For simple flow fields such as those considered in this report, there appears to be little reason to use the more complicated three-equation model for engineering prediction. In such flow fields, length scale distributions are generally known a priori, and, in any case, as noted in the text, a model such as the one-equation model described in this report (in which the turbulence length scale enters only one term) is relatively insensitive to the shape of the length scale distribution. In weak shear fields the three-equation model appears to offer greater potential for proper modeling of the flow-field development; however, at the present state of development the predictions of the one-equation model in these flows appears to be superior. Methods in which transport equations for the turbulence length scale are included are also more adaptable to flows in which the length scale distribution is not known, such as in recirculating flow phenomena.

The results of the computations also indicate that at least for strong-shear flows without significant regions of recirculation the structure of the mean flow field can be suitably characterized by the turbulent kinetic energy distribution. Thus, although the measurements made in this work cannot refute he results of Durão and Whitelaw (Ref. 5), the success of the numerical computations indicates that for the modeling of simple strong-shear flows, without recirculation, the variation in relative magnitudes of the turbulent normal stresses observed in Ref. 5 is not important.

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APPENDIX A DATA TABULATION

X(FT)	950	FT)	WJ	#4/	SECI	PSIF	SF)	Ми	1	GAM		CP(BTU/	#R)	
2.2901F-0	1.86	32F-0	1 1.0	00 CO	F 00	2.013	1F 03	2.897	OE 01	1.400	DE 00	2.4000E	-01	
R(FT)	PT(PSF1		TS(R)		DUO!	4/6731	UX (FT/	/CE/1	HEBTU	7.44.3	TT(R)	HAD	(FT/SEC)	
2.075F-01	2.0225		707F			9E-02	8.3426		1.126E		.713Ê		3E 01	
1.905F-01	2.022F		. 702E			7F-02	8.3096		1.125E		708E		11E 01	
1.739E-01	2.022F		.702E			BE-02	8.3908		1.125E		708E		50E 01	
1.6275-01	2.022F		.7025			9E-02	8.8216		1.125E		.708E		14E 01	
1.518°-01	2.026F		.699F			3E-02	1.0320		1.125E		.708E		39E 02	
1.4405-01	2.0325		.700E			1E-02	1.226		1.126E		.713E		30E 02	
1.3636-01	2.0325 2.041E		-699E			3F-02	1.4936		1.127E		.718E		3E 02	
1.2875-01	2.054E		. 700F			2E-02	1.8126		1.1296		.727E		7E 02	
1.2145-01	2.069E		.691E			7E-02	2.0978		1.129E		.727E		38E 02	
1.1385-01	2.081E		.687F			3E-02	2.3136		1.131E		.732E		01E 02	
1.060F-01	2.09UE		.686E			5E-02	2.4708		1.132F		.737E		55E 02	
9-549F-02	2.099F		.676F			3E-02	2.6028		1.131E		732E		36E 02	
8.540F-02	2.106E		.672F			0E-02	2.695		1.131E		732E		77E 02	
7.487F-02	2.110°		.669F			5E-02	2.756		1.1316		.732E		37E 02.	
6.406F-02	2.114E		-662E			7E-02	2.8068		1.129E		.727E		86E 02	
4.7685-02	2.1176		.660E			1E-02	2.846		1.129E		.727E		26E 02	
3.028F-02	2.1175		.665F			3E-02	2.8466		1.1316		732E		26E 02	
1.3035-02	2.117F		.6595			1F-02	2.8518		1.129E		.727E		31E 02	
-4.439f-03	2.116E		.665E			2E-02	2.8366		1.1318		.732E		,,,,	
-2.251F-02	2.116E		.665F			1E-02	2.830		1.131E		.732E			
-3.972F-02	Z-115E		.061E			9E-02	2.8226		1.130E		.727E			
-5.507E-02	2.1165		.670F		-	3E-02	2.8368		1.132E		.737E			
-+.611F-02	2.116E		-665E			1F-02	2.8308		1.131E		.732E			
-7.702F-02	2.114F		.671F	_		1E-02	2.8079		1.132E		.737E			
-8.390F-02	2.111F		.673F			BF-02	2.770	_	1.131E		737E			
-9.050F-02	2.108E		-670E			2E-02	2.721		1.131E		.732E			
-9.738F-02	2.1035		-664E	-		4F-02	2.659		1.128E		.722E			
-1-0465-01	2.098E		.681E			4E-02	2.5926		1.132E		737E			
-1.116F-01	2.090E		.682F			3F-02	2.4588		1.131E		.732E			
-1.1885-01	2.081		.683F			1E-02	2.3098		1.129E		.727E			
-1.258F-01	2.067E		.692F			6E-02	2.0698		1.129E		.727E			
-1.325F-01	2.053E		.691E			6E-02	1.7826		1.128E		718E			
		1								•				

X(FT)	RS(FT)	WJ{#M/5	SEC) PS(PSF)	'14	GAM	CP(BTU/#R)
3.5493F-					1.4000E 00	2.4000E-01
200113		0. /0//05	0. 0.0		••••••	
R(FT)	PT(PSF)	TS(R)	RHO(#M/FT3) 1,X(F	T/SEC) H(BTU	/4) TT(R)	UADJ(FT/SEC)
2.2785-01	2.022F 03	4.712F 32		7E 01 1.127E		U2 8.497E 01
2.109F-01	2.022F 03	4.7125 02	8.011E-02 8.44	9E J1 1.128E	02 4.718E	02 8.449E 01
1.936F-01	2.022E 03	4.712F UZ	8.011F-02 8.44	OF 01 1.127E	02 4.7186	02 8.440E @1
1.7965-01	2.023E 03	4.711F 02		4F 01 1.127E	02 4.718E	02 8.6945 01
1.7045-01	2.024E 03	4.711E 02	8.013E-02 9.23	3E 01 1.127E	02 4.718E	02 9.233E 01
1.609F-01	2.026E 03	4.714E 02	8.008F-02 1.03	3E 02 1.129E		
1.514F-01	2.031f 03	4.711F 02		7E 02 1.128E		
1.454F-01	2.036F 03	4.712F JZ		4E 02 1.129E		
1.391E-01	2.042E 03	4.708F 02		6E 02 1.129E		
1.329F-01	2.049F 03	4.699° 02		3E 02 1.128E		
1.266F-01	2.057E 03	4.707F 02		7F 02 1.132F		
1.205=-01	2.066E 03	4.706F 02		6E 02 1-133E		
1.144F-01	2.075F 03	4.701E 02		66 02 1.133E		
1.079F-01	2.083E C3	4.696E 02		8F 02 1.133E		
1.016F-01	2.090E 03	4.691 02		3E 02 1.133E		
9.536F-02	2.0965 03	4.683F 02		7F 02 1.132E		
8.922F-02	2.100F 03	4.689F 02		1E 02 1.134E		
8.278F-02	2.1045 03	4.677F 02		4F 02 1.132E		
7.650F-02	2.108E 03	4.6845 02		5E 02 1.134E		
7.007F-U2	2.110F 03	4.673F 02		7E 02 1.132E		
6.115F-02	2.112E 03	4.0778 02		9E 02 1.133E		
5.194F-02	2.1145 03	4.6755 02		6E 02 1.133E		
4.287F-02 3.3526-02	2.115E 03 2.114E 03	4.675F 02 4.675F 02		76 02 1.1336 86 02 1.1336		
2.387F-02	2.115F 03	4.671F 02		8E 02 1.133E		
1.4275-02	2.115F 03	4.671F 02		9E 02 1.131F		
3.286°-04	2.115E 03	4,671 02		9E 02 1.132E		
-1.321F-02	2.115F 03	4.670F 02		5E 02 1.132E		
-2.684F-02	2.115E 03	4.6/CF 02		9F 02 1.132E		
-4.046F-02	2.116F 03	4.670F 02		4F 02 1.131E		
-5.409F-02	2.115E 03	4.680E 02		6E 02 1.134E		
-6.772E-02	2.114F 03	4.676F UZ		8E 02 1.133E		
-7.790F-02	2.1115 03	4.6735 02		2E 02 1.132E		
-8.521F-02	2.108E 03	4.675F 02		6E 02 1.132E		
-9.224F-02	2.103E 03	4.692F 02		4E 02 1.133E		
-9.9415-02	2.098E 03	4.686F 02		9F 02 1.133E		02
-1.0695-01	2.091F 03	4.686F 02		1F 02 1.132E		02
-1.143F-01	2.082E 03	4.691E 02		7E 02 1.132E		02
-1.218F-01	2.071E 03	4.6995 02		95 02 1.132E	02 4.737E	02
-1.289F-01	2.060E 03	4.691F 02	8.046E-02 1.93	5E 02 1.129E	02 4.72ZE	02

~1001	0.04											co	******	
X(FT)		FT)			SEC)	P5 (P		WM		GAM			TU/#R}	
4.7871F-()1 Z.08	3 3UF-	81 9.º	5562	E-01	2.013	E 03	2.897	05 01	1.4000E	00	2.400	00E-01	
R(FT)	PTIPSE	1	TS(R)		RHOLME	(/FT3)	UX (FT/	SECI	H(BTU/	#1 T	T(R)	LEA	ADJEFT/SEC	,
2.389F-01	2.0225		4.726E	02	7.987		8.600E		1.1316		32E		500E 01	•
2.192F-01				02	7.987		8.5799		1.131E		326		479E 01	
2.014F-01	2.022F		4.726F			E~02	8.6208		1.131E		328		520E 01	
1.8995-01	2.023F		4.721E			E-02	8.8116		1.129E		27E		712E 01	
1.7758-01	2.024E		4.72 SF			E-02	9.4795		1.1316		37E		.383E 01	
1.696F-01	2.026E		4.728E			E-02	1.0345		1.132E		37E		.025E 02	
1.620F-CI	2.029E		4. 726F			F-02	1.1356		1.1326		37E		.1266 02	
1.543F-01	2.033E		4.719F			F-02	1.2566		1.131E		32E		.248E 02	
1.489F-01	2.037E		4.721E			E-03	1.3776		1.132E		37E		.369E 02	
1.429F-01	2.041E		4.718F			E-02	1.5016		1.132E		37E		493E 02	
370F-01		03	4. 71 5E			7E-02	1.6346		1.131E		37E		628E 02	
1.309E-01	2.053E		4.715E			F-02	1.7906		1.133E		42E		.785E 02	
1.249F-01	2.060F		4.711F			8E-02	1.9298		1.133E		42E		.925E 02	
1.192F-01	2.067E		4.715E			F-02	2.0705		1.135E		51E		.066E 0Z	
1.107F-01	2.0775		4.704F			E-02	2.250E		1.134E		46E		.247E 02	
1.021F-01	2.085E		4.703E			F-02	2.3968		1.136E		'51E		394E 02	
9.376E-02	2.0º4E		4.703F			7E-02	2.5226		1.136E		756E		.521E 92	
8.485F-02	2.100E		4.694E			20-32	2.6228		1.135E		515	02 2	.621E 02	
7.417E-02	2.106E	03	4.695F	02		DE-02	2.7088		1.136E	02 4.1	756E	02 2	.7C8E 02	
6.409F-02	2.111E	03	4.692F	02	8.04	5E-02	2.770	02	1.136E	02 4.7	756E	02 2	.770E 02	
5.414F-02	2.113E	03	4.676F	22	8.07	2E-02	2.8016	02	1.133E	02 4.7	142E	02 2	.801E 02	
4.391E-02	2.1155	03	4.685E	02	8.058	3E-02	2.827	92	1.135E	02 4.7	751E	02 2	.8275 02	
3.0315-02	2.115E	03	4.680E	02	8.06	7E -02	2.8318	02	1.134E	02 4.7	146E	02 2	.831E G2	
1.511F-02	2.115	03	4.680F	C,5	8.06	1E-02	2.8318	02	1.134€	02 4.7	145E	02 2	.831E 02	
1.9715-04	2.114E	03	4.680F	02	8.06	5E-02	2.8186	02	1.134E	62 4.7	146E	02 2	.818E 02	
-1.335F-02	2-1150	03	4.675E	02	8.074	F-02	2.8210	02	1.133E	02 4.7	142E	02		
-2.655F-02	2.115F	U3	4.685E	02	8.058	3E-02	2.8278	02	1.135E	02 4.7	15 i E	02		
-3.989F-02	2-115F	03	4.684E	02	9.056	3E-02	2.8318	02	1.135E	02 4.7	1516	02		
-5.337E-02	2.115E	03	4.684F	02	8 - 05	E-02	2.8286	02	1.136F	02 4-7	151E	02		
-6.042E-02	2.113E	03	4.686E	02	8.056	5E-02	2.3038	02	1.135€		751E			
-7.589F-02	5.1108	03	4,687E		8.05	3E-02	2.7668		1.136E		PLLE			
~8.507E-02	2.106F	03	4.695F	02	8.04	DE-02	2.702		1.136E		756E			
-9.109F-03	2.102E	03	4.702E	92	8.02	7E-02	2.645		1.138E		7618			
~9.726F-02	2.0968		4.701E		8.030	DE-02	2.5676		1.136E		756E			
-1.037E-01	2.090E	C3	4.695E	02	8.039	7E-02	2.4716		1.134E		746E			
-1.10CF-01	2.084E		4.700F		8.03	26-02	2.3678	E 02	1.1348		746E			
-1.165E-01	2.0768		4.705E			3E-02	2.2350		1.134E		746E			
-1.2287-01	2.068E		4.715F			7E-02	2.094		1.135E		151E			
-1.291F-01	2.059E		4.7118			3E-02	1.9226		1.133E		742E			
-1.313E-01	2.057E		4.703F			6E-02	1.868		1.131E		132E			
-1.334F-01	2.054E	03	4.709E	02	8.01	5E-02	1.813	E 05	1.132E	02 4.7	737E	02		

X(FT)	RS(F)	'A) LW (T	4/SEC) PS	(PSF)	MW	GAM	CP(BTU/#R)
6.0060F-	01 2.1309	5F-01 9.945	55F-01 2.0	131F 03	2.897UE 01	1.4000E 00	2.4000E-01
R(FT)	PT(PSF)	TS(P)	RH0(#4/FT				
2.301F-01	2.022F 03						
2.089F-01	2.0225 03	3 4.74 OF 02	2 7.963E-0	2 8.6651	01 1.134E	02 4.746E	02 8.565E 01
1.918F-01	2.023E 03	3 4.735E 02	2 7.973E-0	2 9.1081	01 1.133E	02 4.742E	02 9.0C8E 01
1.7805-01	2.026F 03	3 4.733F 02	7.975F-0	2 1.016	02 1.133E	02 4.742E	02 1.006E 02
1.669F-01	2.0305 03	3 4.73 OF 02	7.980E-0	2 1.1546	02 1.133E	02 4.742E	02 1.144E 02
1.562F-01	2.035E 03	3 4.737E 02	7.969F-0	2 1.3216	02 1.135E	02 4.751E	02 1.3116 02
1.479F-01	2.040E 03	3 4.738F 02	7.967E-0	2 1.4680			
1.393F-01	2.047E 03						
1.305F-01	2.055E 03	3 4.728F 02	7.984E-0	2 1.8340	02 1.136E	02 4.756E	02 1.824E 02
1.213E-01	2.064E 03	3 4.722F 02	7.994F-0	2 2.0216	02 1.136E	02 4.756E	02 2.011E 02
1.125E-01	2.073E 03	3 4.725E 02	7.988E-0	2 2.1898	02 1.1396	02 4.765E	02 2.179E 02
1.021F-01	2.084F 03	3 4.7198 02	8.000E-0	2 2.3686	02 1.138E	02 4.765E	02 2.358E 02
9.190F-02	2.093E 03	3 4.713F 02	8.010E-0	2 2.5136	02 1.139E	02 4.765E	02 2.503E 02
8.152F-02	2.100E 03			2 2.6236			
7.114E-02	2.106E 03						
6.091F-02	2.111E 03		8.0296-0			02 4.765E	02 2.762E Q2
5.0975-02	2.113F 03						
3.620F-02	2.1156 03						
2.143F-02	2.115E 03						02 2.821E 02
6.813F-03	2.115E 03						02 2.815E 02
-8.013F-03	2.115E 03			2 2.8266	02 1.139E	02 4.765E	02
-2.264F-02	2.115F 03		8.041E-0	2 2.8258	02 1.138E	02 4.761E	02
-3.770F-02	2.1158 03						
-5.2335-02	2.114E 03						02
-6.682F-02	2.112F 03						
-7.586F-02	2.108E 03						
-8.489E-02	2.103E 03						- -
-9.393F-02	2.096F 03						- -
-1.035E-01	2.087E 03						
-1.131F-01	2.077E 03						
-1.229F-01	2.066E 03						
-1.299E-01	2.059E 03						
-1.322F-01	2.057E 03						
-1.345E-01	2.053E 03	4.7195 02	7.998E-0	2 1.7958	02 1.134E	02 4.746E	02

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X(FT)
                             KJ(WM/SFC)
                                           PSIPSFI
                                                                       GAM
                                                                                  CP(BTU/#R)
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                                                            1.101F J2
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                 05(FT)
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                                          PS ( PSF )
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                                                                       644
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 2.495f-01 2.023F 03 4.663F 02 3.094E-02 8.662E 01 1.116E 02 2.333F-01 2.0.3E 03 4.663F 02 8.094E-02 8.730F 01 1.116E 02
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1.114E 02

4.660E 02

8.144F-02

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2.142F-01	2.023F 03	4.692F 02	8.046E-02	9.066E 01	1.123E 02	4.699E 02	8.971E 01
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1.7275-01	2.032F 03	4.686E 02	8.055F-02	1.224E 02	1.123E 02	4.699E 07	1.218E 02
1.6195-01	2.036F 03	4.683F 02	8.060E-02	1.3528 02	1.123E 02	4.699E 02	1.347E 02
1.513F-01	2.042F 03	4.68SE 02	8.050F-02	1.510F 02	1.125E 02	4.7086 02	1.507E 02
1.399F-01	2.048E 03	4.680F 02	8.065F-02	1.666F 02	1.124E 02		
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2.020F-02	2.114E 03	4.6525 02	8.114F-02	2.808E 02	1.128E 02	4.718E 0	2 -818E 02
6.604F-03	2-114F 03	4.647E 02	8.123E-02	2.808E 02	1.126E 02	4.713E 0	2 2-818E 02
-6.131F-03	2.1155 03	4.652E 02	8.115E-02	2.814E 02	1.127E 02	4.718E 0	2
-1.96 1F-02	2.115E 03	4.647F 02	8.123E-02	2.811E 02	1.126E 02	4.713E 0	2
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4.5895 02

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1.126F 02

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                                                                       4.780E 02
                                                                                   2.58UE 02
 6.115F-03
            2.099F 03
                        4.723F 02
                                    7.992E-02
                                               2.604E 02
                                                           1.142E 02
                                                                       4.780E 02
                                                                                   2.596F 02
                                               2.597E 02
2.550E 02
                       4.719E 02
4.716F 02
            2.0985 03
                                    8.000E-02
-7.793E-03
                                                           1.141E 02
                                                                       4.775E 02
                                    9.004F-02
                                                                       4.770E 02
-2.199E-02
            2.095F 03
                                                           1.139E 02
-3.64CE-02
            2.090F 03
                        4.719F 02
                                    7.999E-02
                                               2.471E 02
                                                           1.139E 02
                                                                       4.770E 02
-5-054F-02
            2.083E 03
                        4.728E 02
                                    7.984E-02
                                               2.368E 02
                                                           1.141E 02
                                                                       4.775E
-6.502F-02
             2.077E 03
                                    1.984E-02
                                               2.257E 02
2.155F 02
                        4.728F 02
                                                           1.139F 02
                                                                       4.770E 02
                        4.731F 02
-7,893F-02
             2.071F 03
                                    7.978E-02
                                                           1.140E 02
                                                                       4. /70F 02
-9.270F-02
            2.064F 03
                        4.726F 02
                                    7.986E-02
                                                2.024F 02
                                                           1.138E 02
                                                                       4.761E 02
-1.073F-01
            2.058E 03
                        4.730F 02
                                    7.980F-02
                                                1.906E U2
                                                           1.138F 02
                                                                       4.761E
-1.223E-01
            2.053E 03
                        4.734F 02
                                    7.974E-02
                                               1.788E 02
                                                           1.138E U2
                                                                       4.761E 02
                        4.731F 02
                                   7.979F-02
                                               1.729F 02 1.136E 02
                                                                       4.756E 02
-1.284F-01
            2.050E 03
```

VELOCITY RATIO 3:1, TREPPED*

VILOCITY	KAI	10 9:	1, 4	(K),PP	PD-											
X(FŤ)	-	RSI	(FT)	-	HIII.	#M7	SÉC)	PSIP	SET	Mi	;		AM	CPI	BTU/BR)	-
9.4869			759F	- 01			00		0E 03				00 3000		000E-01	
7.4007	. 02			٠.		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			UL U,							
R(FT)	PT	(PSF)	١	TSI	RI		RHOL#	M/FT31	UXIFT	/SEC)	HEBTU	/# }	TY(R)		UADJ(F1	/SEC.)
1.7235-0		067F		4.71				5E-02	1.085		1.128E		4.722E		1.095E	
1.6138-0		06 7F		4.71				4F-02	1.083		1.128E		4.7228		1.093E	
1.5356-0		067E		4.71				6F-02	1.083		1.129E		4.727E		1.093E	
1.484E-0	_	0675		4.70				3E-02	1.162		1.127E		4.718E		1.112E	02
1.4355-0		069F		4.70				6=-02	1.168		1.127E		4.718E		1.178E	02
1.405F-0		072F		4.70	9E (02	8.17	0E-02	1.249	E 02	1.128E	02	4.722E	02	1.259E	02
1.380F-0		075F		4.71				6F-02	1.354	E 02	1.129E	02	4.727E	02	1.364E	02
1.3585-0	1 2.	080F	03	4.70	9F (02	8.17	1E-02	1.481	E 02	1.129E	02	4.727E	02	1.491E	UZ.
1.333F-0		086F		4.71	OE (02		9F-02	1.626	E 02	1.131E	02	4.732E	G.s	1.636E	02
1.300F-0	1 2.	0965	03	4.70	35	02	8.18	18-02	1.855	E 02	1.131E	02	4.732E	02	1.865E	02
1.276F-0	1 2.	104F	03	4.70	18F	20	6.17	3E-02	2.019	E 02	1.1338	02	4.742E	02	2.029E	02
1.251F-0	1 2.	111F	03	4.70	3F (02	8.18	1E-02	2.148	E 02	1.133E	02	4.742E	02	2.158E	02
1.225F-0	1 2.	117E	03	4.70			8.18	0F-02	2.258		1.1348		4.746E		2.268E	
_1.1946-0		124F		4.69				5E-02	2.358		1.133E		4.742E		2.368E	
1.166F-0		1285		4.69				16-05	2.426		1.134F		4.746E		2.436E	
1.1350		132E		4.69				4F-02	2.483		1.133E		4.742E		2.493E	
1.104F-0		134E		4.68				7F-02	2.523		1.1336		4.742E		2.533E	
1.080F-0		1365		4.68				8E-02	2.549		1.133E		4.742E		2.559E	
1.047F-0		1395		4.69				3E-02	2.588		1.1348		4.746E		2.5988	
1.020-0		140E		4.68				1E-02	2.608		1-132E		4.737E		2.618E	
9.892F-0		142E		4.68				7E-02	2.639		1.134E		4.746E		2.649E	
9.1995-0		146E		4.68				9E-02	2.691		1.133E		4.742E		2.701E	
8.505F-0		149E		4.66				6E-02	2.735		1.135E		4.7518		2.745E	
7.402F-0		1525		4.67				6E-02	2.776		1.133E		4.742E		2.786E	
6.2985-0		1550		4-67				7E-02	2.812		1.1316		4.7378		2.82ZE	
5.181F-0		1565		4.68				4E-02	2.827		1.135E		4.751E 4.746E		2.837E	
3.242F-0 1.219F-0		156E		4.68				2E-02	2.823		1.134E 1.134E		4.746E		2.833E 2.828E	
-7.808F-0		1556		4.67				8E-02	2.819		1.1326		4.737E		2.0200	VŽ
-2.7375-0		1555		4.67				0F-02	2.820		1.133E		4.742E			
-4.431F-0		156F		4.6				0E-02	2.826		1.1336		4.742E			
-5.767F-0		1566		4.67				2E-02	2.833		1.134E		4.746E			
-6.910F-0		1565		4.68				2E-02	2.827		1.134E		4.746E			
-7.778F-0		154E		4.6				8F-02	2.803		1.133E		4.742E			
-8.660F-0		1505		4.6				4E-02	2.751		1.133E		4.742E			
-9.577°-0		145E		4.68				0E-02	2.675		1.134E		4-746E			
-1.020F-0	_	141E		4.68				6E-02	2.623		1.134E		4.746E			
-1.066F-0		136E		4.6				9E-02	2.554		1.133E		4.742E			
-1.119E-0		.131E		4.6	36F	32	8.21	1E-02	2.470	E 02	1.132E	02	4.737E	02		
-1.148E-0		126E		4.69	94F	02	8.19	7E-02	2.393	E OZ	1.133E	02	4.742E	02		
-1.186E-0	1 2	118E	03	4.6	99F	02	8.18	8E-02	2.263	E 02	1.133E	02	4.742E	02		
-1.220F-0	1 2	.108E	03	4.6	96 <u>5</u>	02	8.14	45-02	2.087	E 02	1.1316	02	4.732E	02		
-1.2535-0		.097E	03	4.70				31 E-02	1.868	E 02	1.1318	02	4.7326	02		
-1.287F-0		.086E		4.71				36 E-02	1.642		1.1285		4.722E			
-1.319F-0		078E		4.6				94E-02	1.433		1.126E		4.713E			
-1.340F-0		.074E		4.70				31E-02	1.325		1.127E		4-718E			
-1.366F-0		.0715		4.7				36 E-02	1.218		1.126E		4.713E			
-1-410F-0		.068E		4.6				91E-02	1.129		1.1258		4.708E			
-1.469E-0		.067E		4.6				99E-02	1.083		1.1258		4.708E			
-1.526F-0		.067E		4.6				97E-02	1.074		1.124E		4.703E			
-1-640F-0	1 5	.0675	03	4.6	94E	UZ	5 · L'	98 E - 02	1.082	E 02	1.1248	0.2	4.703E	UZ		

VEGCIII	MAILO 3:1,	IKIPPED					
X(FT)	RS(FT)	AB) EN	i PS(P	SF) M		AM CF	(BTU/#R)
5.3575F-		-01 1.012>					4000E-01
7. 27.176-	05 1.10430	-01 1.0123	2.072	0(05 2.07	100 01 1.4	0000 00 21	40000 01
R(FT)	PT(PSF)	TS(R)	0401#M/6731	UX(FT/SEC)	W/ATII/#3	TT(R)	UADJ(FT/SEC)
1.7158-01	2.067F 03	4.670F 02	8-240E-02	1.0828 02	1.118E 02	4.679E 02	1.092E 02
1.583E-01	2.0675 03	4.6745 02			1.1198 02		1.089E 02
1.508F-01	2.067E 03	4.674F 02	8.231F-02	1.078E 02	1.1198 02	4.684E 02	1.088E 02
1.4705-01	2.067E 03	4.675 02	8.231E-02	1.066E 02	1.1198 02	4.684E 02	1.076E 02
1.4315-01	2.066E 03	4.6755 02	8.230E-02	1.050E 02	1.119E 02	4.684E 02	1.060E 02
1.4055-01	2.065E 03	4.671F 02	8.238E-02	1.025F 02	1.118E 02	4.679E 02	1.035E 02
	2.065E 03	4.6715 02	8.237E-02	1.002F 02	1.118E 02	4.679E 02	1.012E 02
1.3856-01	2.077E 03		8.2096-02			4.703E 02	1.405E 02
1.334F-01 1.278F-01	2.113E 03	4.687F 02	8.2416-02	1.395E 02 2.172E 02	1.124E 02 1.125E 02	4.708E 02	2.182E 02
			8.245 - 62	2.350E 02		4.713E 02	2.360E 02
1.223F-01	2.1245 03	4.667E 02			1.126E 02	4.713E 02	2.483E 02
1.150F-01	2.1315 03	4.662F 02	9.2535-02	2.473E 02	1.126E 02	4.708E 02	2.554E 02
1.0776-01	2.136F 03	4.6545 02	8-267E-02	2.544E 02	1.124E 02	4.713E 02	2.624E 02
1.002501	2.1415 03	4.656F 02	8.264E-02	2.6148 02	1.126E 02		2.700E 02
9.028F-02	_ 2•147F 03	_4.648E 02_	8.278F-02	2.690E 02	1.124E 02	4.708E 02	2.763E 02
7.9815-02	2.1515 03	4.650F 02	8.275E-02	2.753E 02	1.126E 02	4.7136 02	2.805E 02
6.864F-02	2.1545 03	4.648F 02	8.278F-02	2.795E 02	1.126E 02	4.713E 02	
5.6475-02	2.155E 03	4.6425 02	8.288E-02	2.811E 02	1.125E 02	4.7085 02	2.821E 02
4.3595-02	2.156E 03	4.6525 02	8.272F-02	2.8188 02	1.128E 02	4.718E 02	2.828E 02
2-9875-02	2.156E 03	4.647F 02	8.280F-02	2.814E 02	1.126E 02	4.713E 02	2.824E C2
1.360E-02	2.1565 03	4.642E 02	8.289E-02	2.814E 02	1.124E 02	4.708E_02	2.824E 02
-2 360F- 33	2.156F 03	4.65ZE 02	8.2725-02	2.818E 02	1.128E 02	4.718E 02	
-1.558E-02	2.1565 03	4.647F 02	8.280F-02	2.8195 02	1.1265 02	4.713E 02	
-2.9085-02	2.156E 03	4.642F 02	8-2895-02	2.822E 02	1.125E 02	4.708E 02	
-4.2725-02	2.1575 03	4.641F 02	8-2905-02	2.8316 02	1.125F 02	4.708E 02	
-5.5945-02	2.156F 03	4.647 02	8.28UE-02	2.818F 02	1.126E 02	4.713E 02	
-6.9445-02	2-1565 03	4.646- 02	8.281E-02	2.8259 02	1.126E 02	4.713E 02	-
-7.894E-02	2.155E 03	4.642E 02	8.288E-02	2.8108 02	1.125E 02	4.708E 02	
-8.556E-02	2.153E 03	4.639E 02	8.294E-02	2.780F '02	1.124E 02	4.703E 02	
-8.983F-02	2.151E 03	4.645F 02	9.2845-02	2.753£ 02	1.125E 02	4.708E 02	
-9.423F-02	2.147E 03	4.652E 02	9.271E-02	2.7028 02	1.126E 02	4.713E 02	
-9.837F-02	2.145E 03	4.649F 02	8 • 276 5 - 02	2.662E 02	1.124E 02	4.708E 02	
-1.028F-01	2.141E 03	4.646 02	8.281E-02	2.618E 02	1.124E 02	4.703E U2	_
-1.0725-01	2.137E 03	4.6495 02	8.277E-02	2.557E 02	1.124E 02	4.703E 02	
-1.1155-01	2.133E 03	4.6565 32	9.264E-02	2.502E 02	1.125E 02	4.708E 02	
-1.1415-01	2.1315 03	4.653F 02	8.2695-02	2.456E 02	1.124E 02	4.703E 02	
-1.164F-01	2.127F 03	4.6555 02	8.266E-02	2.407E 02	1.124E 02	4.703E 02	
-1.182 ^c -01	2.124E 03	4.652E 02	3.270E-02	2.353E 02	1.123E 02	4.699E 02	
-1.210F-01	2.120F 03	4.660F 02	8.257E-02	2.284E 02	1.124E 02	4.703E 02	
-1.232°-01	2.115E 03	4.654F 02	9-2685-02	2.195E 02	1.121E 02	4.694E 02	
-1.252E-01	2.1075 03	4.6585 02	8.2605-02	2.065E 02	1.121E 02	4.694E 02	
-1.278 ^c -01	2.088E 03	4.6755 02	8-230E-02	1.681E 02	1.123E 02	4.699E 02	
-1.3025-01	2.063E 03	4.6725 02	8.2365-02	9.398E 01	1.118E 02	4.679E 02	
-1.345F-01	2.065E 03	4.656E 02	8.263E-02	1.008E 02	1.114E 02	4.6655 02	
1.384E-01	2.066F 03	4.6465 02	8.2816-02	1.049E 02	1.112E 02	_ 4.655E 02	-
-1.423F-01	2.0665 03	4.6465 02	8.282E-02	1.0579 02	1.113E 02	4.655E UZ	
-1.462F-01	2.0675 03	4.641F 02	8.291E-02	1.072E 02	1.1116 02	4.650E 02	
-1.481F-01	2.0675 03	4.650F 02	8.274E-02	1.076E 02	1.113E 02	4.660E 02	
-1.547E-01	2.0675 03	4.641 02	8-291E-02	1.079E 02	1.111E 02	4.6505 02	
-1.609F-01	2.0675 73	4.646F 02	9.283F-02	1.083E 02	1.1128 02	4.655E 02	

VELOCITY RAT	10 3:1, 1	KIPPED					
X(FT)	RS(FT)	WJ(#W/	SEC) PS (P	ŜF) M	⊌ G	AH CP	(BŤŨ/eŘ)
2.5896F-01	1.9072E						400UE-01
		-					
R(FT) PT	(PSF)	TS(R)	RHO(#M/FT3)	UX (FT/SEC)	H(8TU/#)	TT(R)	UADJ(FT/SEC)
2.004F-01 2.	067E 03	4.717E 02	8-156E-02	1.085E 02	1.129E 02	4.727E 02	1.085E 02
1.897F-01 2.	067E 03	4.722F 02	8-1485-02	1.091E 02	1.1315 02	4.732E 02	1.091E 02
1.789F-01 2.	067E 03	4.717E 02	8.156E-02	1.091E 02	1.130E 02	4.727E 02	1.091E 02
1.7145-01 2.	067E 03	4.722E 02	8.149E-02	1.103E 02	1.131E 02	4.732E 02	1.103E 02
	068E 03	4.726E 02	8-142E-02	1.140E 02	1.132E 02	4.737E 02	1.140E 02
	070E 03	4.720E 02	8.1515-02	1.183E J2	1.131E 02	4.732E 02	1.182E 02
1.530F-01 2.	0725 03	4.7245 02	8.145E-02	1.254F 02	1.131E 02	4.737E 02	1.253E 02
	075E 03	4.77.2E 02	8.1495-02	1.352E 02		4.737E 02	1.350E 02
	0805 03	4. 3E 02	8 - 1475-02	1.490E 02	1.133E 02	4.742E 02	1.487E 02
	088E 03	4.7235 02	8-146E-02	1.671E 02	1.134E 02	4.746E 02	1.667E 02
	0935 03	1-715E 02	8-160E-02	1.782E 02	1.:336 02	4.742E 02	1.778E 02 1.913E 02
	.099F 03	4.7205 02	8.151E-02	1.9176 02	1.135E 02	4.751E 02	2.030E 02
	105E 03	4.717E 02	8.158E-02	2.036E 02	1.135E 02	4.751E 02 4.756E 02	2.137E 02
	117E 03	4.718F 02 4.714E 02	8.156E-02 8.162E-02	2.143E 02 2.245E 02	1.136E 02	4.756E 02	2.239E 02
	1225 03	4.710F 02	8-168E-02	2.3346 02	1.136E 02	4.756E 02	2.326E 02
	127E 03	4.712F 02	8-166E-02	2.419E 02	1.1388 02	4.761E 02	2.411E 02
	1325 03	4.7045 02	8-1795-02	2.488E 02	1.136E 02	4.756E 02	2.480E 02
	136E 03	4.701E 02	8.184E-02	2.555E 02	1.136E 02	4.756E 02	2.547E 02
	141F 03	4.699E 02	8.189E-02	2.620E 02	1.136E 02		2.611E 02
	1445 03	4.696F 0Z	8.193E-02	2.672E 02	1.136E 02	4.756E 02	2.663E 02
	149E 03	4.6845 02	8.214E-02	2.7318 02	1.134E 02	4.746E 02	2.722E 02
7.463F-02 2	152E 03	4.6915 02	8.201 F-02	2.780E 02	1.136E 02	4.756E 92	2.771E 02
6.445F-02 2.	155E 03	4.694F 02	8.196E-02	2.818E 02	1.138E 02	4.761E 02	2.809E 0Z
5.468F-02 2.	156E 03	4.689F 02	8.206F-02	2.837E 02	1.135E 02	4.756E 02	2.827E 02
	1575 03	4.684E 02	8.215E-02	2.844E 02	1.135E 02	4.751E 02	2.834E 02
	.156E 03	4.689E 02	8.206E-02	2.838E 02	1.136E 02	4.756E 02	2.828E 02
	156E 03	4.684E 02	8.214E-02	2.835E 02	1.136E 02	4.751E 02	2.825E 02
	157E 03	4-689E 02	8.206E-02	2.839E 02	1.136E 02	4.756E 02	2.829E 02
	1575 03	4.684F 02	8.2156-02	2.840E 02	1.136E 02	4.751E 02	
	157E 03	4.689F 02	8.206E-02	2.839E 02	1.136E 02	4.756E 02	
	.157F 03	4.689E 02	8.207E-02	2.8435 02	1-136E 02	4.756E 02	
	.157F 03	4.684E 02	8.215E-02	2.844E 02	1.135E 02	4.751E 02 4.756E 02	
	.156F 03	4.689E 02 4.685F 02	8.206E-02 8.213E-02	2.835E 02 2.814E 02	1.136E 02 1.135E 02	4.751E 02	
	153E 03	4.695E 02	8.1945-02	2.797E 02	1.138# 02	4.761E 02	
	151E 03	4.697F 02	8.192E-02	2.769E 02	1.138€ 02	4.761E 02	
	149E 03	4.694E 02	8.198E-02	2.732E 02	1.136E 02	4.756E 02	
	1458 03	4.696E 02	8.194E-02	2.685E 02	1.136E 02	4.756E 02	
	141E 03	4. 703E 02	8.181E-02	2.6238 02	1.138E 02	4.761E 02	
	134E 03	4.703E 02	8.182E-02	2.528E 02	1.136E 02	4.756E 02	
-1.104E-01 2.	126E Q3	4.698F 02	8.190E-02	2.404F 02	1.134E 02	4.746E 02	
-1.161E-01 2	.117E 03	4.714F 02	8.163E-02	2.250E 02	1.136E 02	4.756E 02	
	106E 03	4.716E 02	8.159E-02	2.049E 02	1.135E 02	4.751E 02	
	.095E 03	4.718- 02	8.155E-02	1.844E 02	1.134E 02	4.746F 2	
	.086E 03	4.715E 02	8.161E-02	1.632E 02	1.132E 02	4.737E 02	
	.079E 03	4.719E 02	8-153E-02	1.453E 02	1.131E 02	4.7376 02	
	.073E 03	4.7135 02	8.163E-02	1.294E 02	1.129E 02	4.727E 02	
	.070E 03	4.711E 02	8-168F-02	1-190E 02	1.128E 02	4-722E 02	
	.068E 03	4.7075 02	8.174E-02	1.122F 02	1.128E 02	4.718E 02	
-1.740E-01 2	.057F 03	4.713E 02	8-165F-02	1.093E 0Z	1.128E 02	4.722E 02	

X(FT)	RS(F	TÎ 11	(#M/SEC)	PS(P	ČE 1			GAM	CD	(BTU/OR)
4.2458E-0		-	0067E 00	2.052		2.897		1.4000E	_	4000E-01
4.24700	2.05,		00016 00	2.02	00	24071	0. 0.	1.40000		10000
P(FT)	PT(PSF)	TS(R)	BHO L	M/FT3)	UXIETA	SECE	H(BTU/	a) T	T (R)	UADJ(FT/SEC)
2.243F-01	2.067F 0			5F-02	1.0826		1.135E		51E 02	1.092E 02
2.101F-01	2.067E 0			9E-02	1.086		1.138E		61E 02	1.0965 02
1.9584-01	2.067F 0	3 4.746	02 8.10	76-02	1.0828		1.136E		56E 02	1.052E 02
1.8545-01	2.0675 0	3 4.746F	02 8.10	7F-0.2	1.0978	02	1.136E	02 4.7	56E 02	1.106E 02
1.778E-01	2.0685 0	3 4.75 OF	02 8.10	00=-02	1-1309	02	1.138E	02 4.7	61E 02	1.140E 02
1.6975-01	2.0705 0	3 4.744E	02 8.11	0F-02	1.1785	02	1.136E	02 4.7	56E 02	1.1872 02
1.618F-01	2.072E 0	3 4.743F	02 9.11	3F-02	1 - 2608	0.2	1.137E	02 4.7	56E 02	1.269E 02
1.549F-01	2.0758 0	3 4.736E	02 9.12	5E-02	1.3559	: 02	1.136E	02 4.7	51E C2	1.364E 02
1.475=-01	2.0R0E 0	3 4.742°	02 9.11	3F-02	1.482	02	1.138E	02 4.7	61E 02	1.490E 02
1.4246-01	2.085 0	3 4.735	02 8.12	76-02	1.4015	02	1.136E	02 4.7	56E 92	1.6 C8E 02
1.3795-01	2.088F 0			55-02	1.696	02	1.138E		65E 02	1.7028 02
1.3295-01	2.094° 0			3F-02	1.810		1.140E		70E 02	1.815E 02
1.283F-01	2.100F 0			95-02	1.938		1.140E		70E 02	1.943E 02
1.2755-01	2.1065 0			14E-02	2.057		1.139E		65E 02	2.061E 02
1.158F-01	2.116E 0			38E-02	2.242		1.139E		70E 02	2.245E 02
1.0865-01	2.125F 0			7F-02	2.389		1.140F		70E 02	2.392E 02
1.0185-01	2.133F 0			4F-02	2.508		1.138E		65E 02	2.510E 02
9.460F-02	2.139= 0			55E-02	2.603		1.141E		75E 02	2.6C4E 02
9.6545-02	2.1445 0			85-02	2.676		1-139E		70E 02	2.677E 02
7.8475-02	2.1495 0			73E+02	2.736		1.140E		70E 02	2.736E 02.
7.0835-02	2.1525 0			35E-02	2-785		1-138E		65E 02	2.785E 02
6.2635-02	2.1545 0			96 E - 02	2.813		1-138E		61E 02	2.813E 02
5.1175-02	2.1575 0			90F-02	2-843		1-138E		65E 02	2.84ZE 02
3.9146-02	2.1575 0			91 F-02	2-853		1-138E		65E 02	2.852E 02
2.400F-02 8.441F-03	2.1588 0			335-02	2 - 856		1.140E		70E 02	2.856E 02
-6.622F-03	2.1569 0 2.1569 0			39E-02	2-829		1.139E		65E 02 70E 02	2.829E 02
-2.164F-02	7.1565 0			31 E-02 90E-02	2.833		1.139E		65E 02	
-3.25?8-02	2.156F 0			315-02	2-830		1.139E		70E 02	
-4-367°-02	2.157E 0			98E-02	2.841		1.138E		61E 02	
-5.4935-02	2.1575 0			336-02	2-853	_	1.139E		70E 02	
-6.544F-02	2.1575 0			91E-05	2-851		1.139E		65E 02	
-7.191F-02	2.1565 0			73 E-02	2.836		1.141E		75E 02	
-7.880F-02	2.153E 0			70E-02	2.800		1.141E		75E 02	
-9.500F-02	2.1515 0			765-02	2.769		1.140E		70E 02	
-9.133F-02	2.147E 0			795-02	2.713		1.139E		65E 02	
-9.739F-02	2.1425 0			6€-02	2.648		1.140E		70E 02	
-1.036F-01	2.136F 0			59F-02	2-552		1.140E		70E 02	
-1.109F-01	2.126E 0	3 4.7175		66-02	2.401	-	1.138E		65E 02	
-1.174F-0,	2.117E 0	3 4.723E		50-39¢	2 . 252		1.139E		65E 02	
-1.235E-01	2.107F 0	3 4.725E	02 9.14	45-02	2.080	02	1.138E	02 4.7	61E 02	
-1.302F-01	2.0985 0	3 4.7265	02 3.14	42F-02	1.897		1.136E	02 4.7	56E 02	
-1.390F-01	2.0875 0	3 4.7285	02 8.13	385-02	1.665	E 02	1.135E	02 4.7	51E 02	
-1.474F-01	2.080F 0			38F-02	1.4771		1.134E		46E 02	-
-1.5625-01	2.J74E 0	3 4.7275	02 9.14	*0E-07	1.323	E 02	1.133E	02 4.7	42E 02	
-1.643F-01	2.0715 0			365-02	1.218		1.1335		42E 02	
-1.729F-01	2.069F 0			34E-02	1-151		1.133E		42E 02	
-1.8365-01	5.0685 0			10E-02	1-106		1.132E		37E 02	
-1.937F-01	2.067E 0	3 4.7275	02 4.14	40F-02	1.095	E 02	1.132E	02 4.7	37E 02	

X(FT)		F7)	MAJEN		PSIP		MH		GAM			BTU/#R	
5.85156-	01 2.16	81E-01	9., 99t	16-01	2.052	0E Q3	2.897	0E 01	1.400	00 30	2.4	000E-01	
R(FT)	PT(PSF)	15	(R)	RHD(4	M/FT3)	UXCFT	(SEC)	H (BTU/	<i>a</i>)	TTER	1	UADJEFT	/SEC
2-319F-01	2.0678		6 OE 0 2		3E-0?	1.088		1.140E		.770E		1.088E	
2.1464-01	2.0675	03 4.7	60E 02	8.08	3 5-02	1.088		1-140E		.770E		1.088E	
1.989F-01	2.067E	03 4.7	6 OE OZ	8.08	3 E-02	1.699		1.139E		-770E		1.099E	
1.8355-01	2.0695		59E 02		56-02	1.152		1.139E		.77CE	OZ	1.152E	02
1.7255-01	2.071E		67F 02		25-02	1.238		1.142E		.780E	02	1.238E	02
1.6105-01	2.075E		60F 02	8.08	4E-02	1.359	E 02	1.141E	02 4	.775E	02	1.359E	02
1.547F-01	2.0795	03 4.7	62F 02	8.08	0E-02	1.464	E 02	1.142E	02 4	-780E	02	1.464E	02
1.4765-01	2.0835	03 4.7	59F 02	8.08	5E-02	1.572	E 02	1.142E	02 4	.780E	02	1-572E	02
1.4126-01	2.089€	03 4.7	55E 02	8.09	1 E-02	1.706		1-1428		.780E	02	1.766E	
1.3476-01	2.0945	03 4.7	52F 02	8.09	97F-02	1.627	E 02	1.142E	02 4	.780E	02	1-827E	02
1.282F-01	2.1019	03 4.7	52E 02	8.09	7F-02	1.970	E 02	1.1438	02 4	.784E	02	1-970E	02
1.2175-01	2.108E	03 4.7	48E 02	5.10	34 E-02	2.100	F 02	1.143E	02 4	-784E	02	2-100E	02
1.1556-01	2.1145	03 4.7	485 UZ	8.10	3 5-02	2.215	E 02	1.1445	02 4	.789E	02	2.215E	02
1.0885-01	2.1215	03 4.7	44F 02	8.11	1E-02	2.334		1-144E		. 789E		2.334E	
1.0235-01	2.128F	U3 4.7	40° 02	8.11	86-02	2.437	E 02	1.1446		.789E		2.437E	02
9.5945-02	2.134E	03 4.7	41F 02	8.1	16F-02	2.526	E 02	1.146E	02 4	.794E	65	2.526E	02
8.6045-02	2.1415	03 4.7	41E 02	8.1	16E-02	2.631	₹ 02	1.146E	02 4	.799E	02	2.631E	02
7.5995-02	2.147E		41E 02	8.11	15E-02	2.725	E 02	1.148E		. 803E		2.725E	
6.609F-02	2.1515		30€ 02		356-02	2.777	E 02	1.146E	02 4	1.794E	02	2.777E	02
5.647E-02			28F 02		385-02	2.811		1.146E		194E		2.811F	
4.2185-02			2 25 02		48E-02	2.830		1.144E		.789E		2.830E	
2.8175-02	2•155E		225 02		48F-02	2.832		1.144E		. 789E		2.832E	
1.303E-02			27F 02		40E-02	2,835		1.145E		1.794E		2.835E	02
~5.889F-03			238 02		47E-02	2.827		1.144E		. 789E			
-2.517F-02	2.155E		2 2E 02	-	48 E-02	2.832		1.1448		789E			
-3.9225-02	2.156E		2 2F 02		48E-02	2.837		1-144E		.789E			
-5.3555-02			27F 02		40E-05	7-832		1-146E		1.794E			
-6.760E-02	2.153F		28E 02		38E-02	2.805		1.146E		1.794E			
-5.165F-02	2.147E		32E 02		31 E-02	2.728		1.146E		.794E			
-9.556F-02	2.1375		38E 02		20E-02	2.504		1.146E		.794E			
-1.0275-01	2.1316		42E 02		14E-02	2.494		1.146E		.794E			
-1.099F-01	2.123F		4 3E 02		13E-02	2.364		1.144E		.789E			
-1.176F-01			465 02		03F-02	2.212		1-144E		4.789E			
-1.746F-01	2.105F		49F 02		02E-02	2-052		1.143E		4.784E			
-1-319F-01	2.0975		55E 02		92E-02	1.889		1.143E		4.784E			
-1.392F~01	2.0916		495 02		01E-02	1.746		1.1416	-	4.775E 4.770E			
-1.493F-01 -1.589F-01	2.082E 2.076E		750E 02 754F 02		00E-02 94E-02	1.540		1.140E		4.770E 4.770E			
-1.6865-01			57F 02		99E-02	1.276				4.770E			
-1.781F-01	2.070E		49E 02		02F-02	1.179		1.1376		4.761E			
-1.8475-01	2.070E		154E 02		93E-02	1.179		1.1376		4.765E			
-1.927F-01	2.0678		146E 02		08E-02	1.105		1.1308		4.756E			
-2.029F-01	2.067E		751E 02		998-02	1.082		1.1386		4.761E			
6 8 U C 7' - U L	£												
-2.132F-01	2.0676	03 4.7	751E 02	9.A	99E-02	1.083	F 02	1.138E	A2 .	4.761E	0.2		

VELOCITY RATIO 3:1, TRIPPED●

X(FT)	RS(FT)			SIPSFI		W		IM		BTU/#R)
7.6793F-0	l 2.3143F	-01 5.990	5E-01 2:	0520E 03	2.89	70E 01	1.40	100E 00	2.4	000E-01
R(FT)	PT(PSF)	TS(R)	RHO (#M/F	T3) UX(FT	/SEC)	H(BTU	/#}	TIGE)	UADJ(FT/SEC
2.580F-01	2.067E 03	4.784E 02	8.043E-	02 1.082	E 02	1.146E	02	4.794E	02	1.092E 02
2.435F-01	2.067E 03	4.779E 02	8.051E-	02 1.085	5_02	1.144E	02_			1.095E 02
2.288F-01	2.067E 03	4.784F 02	8.043E-	02 1.086	E 02	1.146E		4.794E		1.096E 02
	2.067E 03	4.784E 02				1.146E		4.794E		1.1CôE 02
	2.068E 03	4.778F 02				1.144E		4.7895		1.143E 02
	2.071E 03	4.772E 02				1.143E		4.784E		1.2230 02
	2.074E 03	4.7705 02	8.066F-		E 02	1.143E	02	4.784E		1.316E 02
1.6355-01	2.0775 03	4.777F 02	8.0545-	02 1.413	E 02	1.146E	02	4.794E		1.419E 02
	2.0835 03	4.769E 02	8.069E-	02 1.570	E 02	1.144E	02	4.789E		1.574E 02
1.4175-01	2.090E 03	4.773E 02	8.0615-	02 1.742	E 02	1.146E		4.799E		1.745E 02
	2.099E 03	4.768F 02				1.1478		4.799E		1.923E 02
1.2055-01	2.108E 03	4.767E 02			E 02	1.148E		4.803E		2.098E 02
	2.119E 03	4.764F 02	8.076F-			1.149E		4.808E		2.288E 02
	2.129E 03	4.753E 02	8.095E-			1.148E		4.803E		2.446E 02
8.841F-02	2.135E 03	4.758E 02		02 2.558	E 02	1.150E		4.813E		2.551E G2
	2.145E 03	4.7525 02				1.150E		4.813E		2.684E 02
	2.151E 03	4.744F 02				1.149E		4.808E		2.765E 02
	2.154E 03	4.742E 02				1.149E		4.808E		2.813E 02
3.1815-02	2.155E 03	4.746E 02	8.108E-	02 2.840	E 02	1.1505	02	4-813E	02	2830E 02
	2.156E 03	_4.741E_02		02 2.844		1.149E		4-808E		2-834E 02
4.323c-03				02 2.840	E 62	1.148E		4.003E		
	2.155E 03	4.736E 02		02 2.834		1.148E		4-803E		
	2.155E 03	4.736E G2		02 2.835	E 02	1.149 E		4.803E		
-5.019F-02	2.154E 03	4.742E 02	8.115E-	02 2.824	E 02	1.149E	02	4.808E	02	
-6.06EE-02	2.152E 03	4.747E 02		02 2.800	E 02	1.150E		4.813E		
	2.149E 03	_4.745E_02		02 2.758		1-149E		4.808E		
	2.144F 03	4.748E 02				1.149E		4.808E		
	2.136E 03	4.753F 02				1.149E		4.808E		
-1.0358-01	2.125E 03	4.751E 02	8.099E-	02 2.393	E 02	1.1476	02	4.799E		
	2.115E 03	4.757E 02				1.147E		4.799E		
	2.104E 03	4.765E 02				1.147E		4.799E		
	2.094E 03	4.762F 02				1.144E		4.789E		
	2.084E 03	4.768F 02				1.144E		4.789E		
	2.077E 03	4.768E 02				1.143E		4.784E		
	2.072E 03	4.766E 02				1.1428		4.780E		
	2.069E 03	4.773E 02				1.143E	-	4.784E		
	2.067E 03	4.774F 02				1.143E		4.784E		
-2.182F-01	2.06?E 03	4.770E 02	9.067E-	02 1.088	F 02	1.142E	02	4.780E	0.2	

```
HJ(#M/SEC)
                                                 PS(PSF)
                                                                   MM
                                                                                 GAM
                                                                                             CP(BTU/#R)
   1.0122F 00 2.5098F-01 9.96778-01 2.0520F 03 2.8970F 01 1.4000F 00 2.4000F-01
                             TSUR
                                         RHO(#M/FT3) UX(FT/SFC) H(BTU/#)
                                                                                      TTIRI
                           4.803F 02 9.011E-02 1.091E 02 1.150E 02 4-813E 02
 2.719F-01 2.067F 03
                                                                                                 1.091E 02
  2.51AF-01 2.067F 03
2.310F-01 2.067E 03
                           4. 798F 02
4. 803F 07
                                          8.0195-02 1.0935 02 1.1495 02
8.0125-02 1.1055 02 1.1505 02
8.0215-02 1.1445 02 1.1495 02
                                                                    1.149E 02
                                                                                   4.808E 02
                                                                                                 1.093E 02
  2.310F-01
                                                                                   4.813E 02
                                                                                                 1.1C5E 02
 2.109F-01 2.068F 03
                            4.797E 02
4.800F 02
                                                                                   4.808E 02
                                                                                                 1.144E 02
  1.909F-01
              2.0715 03
                                          8.016 -02
                                                        1.249E 02
                                                                     1.149E 02
                                                                                   4.8135 02
                                                                                                 1.248E 02
 1.7275-01
               2.077E 03
                            4.796F 02
                                          8.02?F-02
                                                        1.406F 02
                                                                     1.150E 02
                                                                                   4.813E 02
                                                                                                 1.404E
 1.577F-01
               2.0835 03
                            4.7925 02
                                          8.029F-02
                                                        1.572E 02
                                                                     1.150E C2
                                                                                   4.8136 02
                                                                                                 1.570E 02
 1.431F-01
1.2885-01
               2.0915 03
                                          8.038E-02
8.041E-02
                                                       1.773E 02
                                                                     1.150E 02
1.151E 02
1.151E 02
                                                                                   4.813E 02
4.8182 02
                                                                                                 1.769E 02
                           4.787E_02
                            4.785E 02
                                                        2.174E 02
  1.1415-01
                            4.778F 02
                                          8.053E-02
                                                                                   4.818E 02
                                                                                                 2.168E 02
               2.112F 03
               2.1235 03
                            4.775F 02
                                          8.0575-02
                                                        2.3735 02
                                                                     1.152E 02
                                                                                   4.822E 02
                                                                                                 2.366E 02
  8.441F-02
               2-134F 03
                            4.778F 02
                                          8-053E-02
                                                        2.541E 02
                                                                     1.154E 02
                                                                                   4.832E 02
                                                                                                 2.533E 02
                            4.768E 02
  6.956F-02
              2,1435 03
                                          8.070--02
                                                        2.667F 02 1.153E 02
                                                                                   4-827E 02
                                                                                                 2.658E 02
               2.149E 03
2.153E 03
                            4.759E 02
4.756E 02
                                          8.085F-02
8.090E-02
8.091E-02
                                                        2.757E 02 1.152E 02
2.814E 02 1.152E 02
                                                                                  4.822E 02
4.822E 02
                                                                                                 2.747E 02
2.804E 02
  5.512F-U2
  4.1266-02
                                                        2.835E 02 1.152E 02
  2.6835-02
               2.155E 03
                             4.755F 02
                                                                                   4.822E 02
                                                                                                 2.825E 02
                            4.7555 02
 1.1695-02
               2.155F 03
                                          8-092E-02
                                                        2.8415 02
                                                                     1.152E 02
                                                                                   4.822E 02
                                                                                                 2.831E 02
                            4.750F 02
4.755E 02
-2.9849-03
                                                        2.841F 02 1.151F 02
               2.155F 03
                                          8.100E-02
                                                                                    4.818E 02
                                                        2.8445 02 1.152E 02
-1.758F-02
                                          8.0925-02
               2.1555 03
                                                                                   4.822E 02
                            4.751° 02
4.762E 02
                                                        2.832E 02 1.151E 02
2.797E 02 1.154E 02
                                          8.0995-02
                                                                                    4.818E 02
 -3.246E-02
               2.155F 03
-4.734F-02
               2.1525 03
                                          8.080E-02
                                                                                    4.827E 02
-6.139--02
                                                        2.735E 02 1.153E 02
               2.147E 03
                            4.760F U2
                                          8.0835-02
                                                                                    4.822E 02
                            4.774F 02
                                                        2.633E 02 1.154E 02
2.483E 02 1.154E 02
-7-585F-02
               2.140E 03
                                          9.050E-02
                                                                                   4.832E 02
                            4.7765 02
4.7755 02
-9.045F-02
               2-1305 03
                                          8.057E-02
                                                                                    4-827E 02
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4.803E 02
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4.812E 02 7.996E-02 1.125E 02 1.152E 02 4.822E 02
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*THESE DATA ARE NOT PRESENTED IN ANY FIGURES IN THE PRESENT REPORT

4.813E 02

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1.093E 02 1.163E 02
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1.876F 02 1.1E 02
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7.973<u>F</u>-02
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*THESE DATA ARE NOT PRESENTED IN A'TY IGURES IN THE PRESENT REPORT

THE RESERVE OF THE PARTY OF THE

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               2.082F 03
                              5.350F 02
                                                           1.781F 02
                                                                         1.285E CC
                                                                                        76E 02 د.:
                              5.353F 02
5.355F 03
                2.J83E 03
  7.36 3E -02
                                                           1.8226 02
                                                                                        1.380E 02
                                                                         1.286E J2
  8-102F-02
                2.J86E 03
                                                           1.8886 02
                                                                         1.287F 02
                                                                                        ..385E 02
                                                                                                      1.907E 02
                              5.367E J?
                                                                                                      1.947E 02
               2.088E 03
                                            7.1448-02
                                                           1.9276 02
                                                                         1.291E 02
                                                                                        -.398E 02
  1725-02
                2.088E 03
                              5.3768 32
                                            7.1375-02
                                                           1.9426 02
                                                                         1.2931 02
                                                                                        5.407F 02
                                                                                                      1.462E 02
  3.469F-02
                                                           1.938E 02
1.937F 02
                              5.362F C2
                                           7.155F-02
                2.0885 03
                                                                         1.2898 02
                                                                                       5.394£ 32 1.958E 02
                              5.363E 02
5.354F 02
                                           7-155E-02
                                                                         1.289E 02
1.287F 02
  1.210E-02
                2.088E 03
                                                                                        5.394E 02 _1.957E_02
               2.088E U3
                                            7.1676-02
                                                           1.937E 02
 -1.082F-02
                                                                                        5.385E 02
                              5.3566 02
                                            7.101E-02
               2.0595 03
                                                           1.9438 02
                                                                         1.288E 02
                                                                                        5.3896 02
-5.142f-U2
                2.0895 03
                              5.35 8F UZ
                                            7.161E-02
                                                           1.951t 02
                                                                         1.288E 02
                                                                                        5.389E 02
                2.0895 03
                              5.349F 02
-6.8615-02
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                                                           1.953E C2
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                                            J. 202E-02
 9.9898-02
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                                                                         1 2408 02
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-1.0766-01
                2.076E 03
                              5.317 02
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                                                                         1 . 12 02
-1.118F-01
                2.075F 03
                              5.306F 02
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                                                           1.6055 02
                                                                         1.4.35 02
                                                                                        5.227E UZ
                2.0709 03 5.269F 02
                                                           1.459F 02 1.264E 02
-1-1079-01
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 -1.1857-01
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                                                                                        5.2+6E 02
 -1.200E-01 2.065E 03 5.17CF 02
                                                                                        5.183E 02
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    X(FT) RS(FT) WJ(NM/SEC) PS(PSF) MW GAM CP(BTU/NR)
1-4218F-01 1-5853F-01 5-1777E-01 2-0462E 03 2-8970E 01 1-4000E 00 2-4000E-01
                                                                      MW GAM
 P(FT) PT(PSF) TS(A) PHG($M/FT3) UX(FT/SEC) H(8TU/$) TT(R) UADJ[FT/SEC] 2.056E-01 2.058E 03 4.772F 02 8.040E-02 9.584E 01 1.142E 02 4.760E 02 9.684E 01 1.853F-V1 2.058E 03 4.777F 02 3.032E-V2 9.572E 01 .143E 02 4.784E 02 9.671E 01 1.699F-V1 2.058E 0. 4.772E 02 8.041E-02 9.646E 01 1.142E UZ 4.78UE 02 9.747E 01
                                                                                                      UAGSIFY/SEC)
                2.J58E J3 4.777E Q2
2.J58E J3 4.782E Q2
  1.5795-01
                                            9.935E-05
                                                           9.597E 01 1.143E 02
                                                                                       4.784E 02
                                                                                                      9.697E 01
  1.5126-01
                                            8.0248-02
                                                           9.568E 01 1.144E 02 4.789E 02 9.668E 01
9.572E 01 1.152E 822E 02 9.672E 01
                2.058E 03 4.815E 02
                                            7.969E-02
  1.3778-01
                2.0585 03 4.8996 02
                                           7.3320-02
                                                           9.647E 01
                                                                         1.175E
                                                                                        1.907E 02 9./48E 01
                                                                         1.198E 5.014E 02 1.033E 02
1.213E 02 5.074E 02 1.108E 02
1.226E 02 5.129E 02 1.200E 02
                                                           1.022t 02
1.097E 92
...1.303F-Q1
  1.303F-01 2.959E 03 5.005F 02 7.666E-12
1.271F-01 2.060E 03 5.064E 02 7.577E-02
1.233F-01 2.063E 03 5.117" 02 7.498E-02
                                                           1.188E 02
1.324£ 02
                              5.164F 02
                                            7.4308-02
                                                                         1.238E 02
                                                                                       5.1798 02 1.3386 02
  1.192[-31
                2.3678 03
  1.139F-01
                2.072F 03
                              5.2145 02
                                            7.359E-02
                                                           1.506E 02
                                                                         1.2518 02
                                                                                                      1.522E
                                                                                        3.233€ 02
  1.085f-01 2.077E 03 5.26', 12 7.288E-02 1.046f-01 2.077E 03 5.26', 12 7.288E-02 1.046f-01 2.079E 03 5.26', 12 7.241E-02 1.905f-01 2.041E 03 5.328F 02 7.201E-02 9.033E-02 2.084E 03 5.355E 02 7.151E-02
                                                                         1.251E 02 5.267E 02 1.655E 02
1.253E 02 5.367E 02 1.655E 02
1.272E 02 5.373' 02 1.771E 02
1.289E 02 5.35... 02 1.771E 02
1.289E 02 5.394E 02 1.862E 02
1.273E 02 5.407E 02 1.921E 02
                                                           1.638E 02
                                                           1.7056 02
1.753F 02
                                                           1.8436 02
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25E-02
27E-02
  7.9195-02
                2.3875 03 5.3775 0:
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  5-610: -02
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2.089E 03 5.384F 02
                                                           1.928E 0<
                                                                                        5.416/, 02 1.948F 02
5.416 02 1.980F 02
                                                                         1.294E 02
  5.104F-02
                                                           1.960E 02
1.939E 02
1.937E 02
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1.296E 02 5.425 02
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2.088E 03 5.389E 02
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7.120E-02
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                                                                                        5.4201 02
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                                                           1.9:38 02
                                                                                        5.416 . 02
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                2.0885 03
                              5.38 + 02
                                                           1.947E U2
                                                                         1.2942 02
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                2.089E 03
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                2.089E 03
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                                                                         1.293E UZ
                                                                                        5.41 .E 02
 -9.2235-02
-8.9105-02
                2.088E 03 5.3815 22
                                            7..316-02
                                                           1.9288 02
                                                                          1.2936 02_
                                                                                        5.411E UZ
                              5.378F 02
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                2. J84F 93
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                                                           1.8416 02
                                                                          1.290F U2
 -9/821 -27
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                 2.03
                                                                         1.281E 02
                                                                                        5. 158E 02
                                            7.230F-02
7.506E-02
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                2.0805 03 5.307F 02
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                                                                          1.274E Q2
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 -1.2°0:-01
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                                        32
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                                                                                                        UADJUFT/SEC)
  1.919E-01 2.058E 03 4.796F 02 8.001E-02
                                                            9.599E 01 1.148E 02
                                                                                        4.803E 02
                                                                                                        9.699E 01
  1.708F-01 2.058E 03 4.7943 02 8.001E-02
1.550F-01 2.058E 03 4.819E 02 7.96'E-02
                                                           9.591ë 01 1.148E 02
9.623F G1 1.153E U2
                                                                                                        9.691E Q1
                                                                                         4.803E 02
4.827E 02
                                                                                                        9.723E 01
                2.058E 03 4.870F 02 7.847E-02
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  1.4505-01
                                                            9.782E 01
                                                                          1.1716 02
                                                                                         4.898E 02
                                                                                                        9.884E 01
                                                                                          4.986E 02
  1.3806-01
                                                            1.022E 02 1.191E 02
                                                                                                        1.032E 02
  1.3355-01
                                                            1.062F U2
                                                                          1.205€ 02
                                                                                         5.04/E 02
                                                                                                        1.073E 02
                                                           1.128± 02 1.217E 02
1.212E 02 1.228E 02
1.322E 02 1.239E 03
                                                                                         5.092t 02
5.138t 02
                                                                                                       1.140± 02
_1.225E 02
  1-290F-01
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  1.245E-01
                2.063F 03
                2.066£ 03
2.0 JF 03
2.372F 03
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                                                                                          5.183E 02
                                                                                                        1.3368
  1.152F-01
                                                            1.430E 02
                                                                          1.246E 02
                                                                                         5.215E 02
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                                                                                         5.2428 02
                                                                                                        1.555E 02
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  1-0625-01
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                                                                                                        1.65UE 02
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                                                            1.7256 02
                                                                          1.273E 02
                                                                                          5.327E 02
                                                                                                        1.742E 42
                2.003E 03 5.397E 02 7.162E-02
2.003E 03 5.395E 02 7.112E-02
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2.009E 03 5.407E 02 7.092E-02
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                                                            1.823t 02
                                                                           1.287E 02
                                                                                          5.385E UZ
                                                                                                        1.842E 02
  8-975E-02
  7.960F-02 2.086E 03
                                                            1.890E 02
                                                                           1.2968 02
                                                                                          5.425E U2
                                                                                                        1.909£ 02
                                                            1.939E U2
1.956E U2
                                                                                         5.438E 02
5.433E 02
  6.683F-02 2.088F 03
                                                                                                        1.959E 02
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  5.390F-02
  4.097E-02
                                                            1.9598 02
                                                                           1.301E 02
                                                                                          5.442E U2
                                                                                                        1.979E 02
  2.08 3F -02
                2.088F 03
                               5.411E 02 7.091E-02
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                                                                           1.301E 02
                                                                                          5.442E 02
                                                                                                        1.958E 02
                               5.407E 02 7.097E-02
5.411E 02 7.091E-02
5.406E 02 7.097E-02
                                                            1.941E 02
1.946E 02
__ 3.639E-04 __2.08BE_03__
                                                                           1.300E 02
                                                                                          5.438E.02
                                                                                                        1.961E 02.
                                                                          1.301E 02
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                2.088E 03
                                                                                          5.442E 02
                                                            1.953E 02
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                2.0886 03
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                                             7.103E-02
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                                                                                          5.429E 02
 -8-9836-02
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                                                                                          5.389E U2
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1.765E 02
                               5.331E 02 7.197E-02
5.285E 02 7.260E-02
-9.623E-02
-1.031E-01
                2.083E 03.
                                                                           1.201E 02
                                                                                          5.358E Q2
                2.079E C3
                                                                           1.269E 02
                                                                                          5.309E 02
 -1.100E-01
                2.075E 03
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7.388E-02
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5.194E 02
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                2.072E 03
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                                                                                          5.233E 02
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Y(FT) 4.0519E-01	RS(FT) 1.74316-		C; PS{PSF} 01 2.0462E U3	MW 2.8970E 01	GAM 1.4000E 00	CP(BTU/#R) 2.4J00E-01
R(FT) P1 2.262F-01 2. 2.062F-01 2.	(PSF) 058E 03 058E 03	TS(R) RHG 4.834E 02 7: 4.814F 02 .7:	D(#4/FT3) UX(FT •969E-02 9•672	/SEC) H(BTU 6 01 1.152E 6 01 1.152E	02 4.822E	02 9.772E 01 02 9.772E 01 02 9.722E 01
1.560: -01 2. 1.483F-01 2. 1.427F-01 2. 1.367F-01 2.		4.866 J2 7. 4.954F J2 7. 5.005F J2 7. 5.008F J2 7.		E 01 1.164E E 02 1.186E F 02 1.198E F 02 1.214E	02 4.674E 02 4.963E 02 5.014E 02 5.78E	02 9.824E 01 02 1.018E 02 02 1.061E 02 02 1.118E 02
1.142F-01 2. 1.085F-01 2.	.055 03 .068F 03 .071F 03 .074E 03	5.152F 02 7. 5.18/F 02 7. 5.215F 02 7. 5.239£ 02 7.		t 02 1.234E c 02 1.243E E 02 1.251E t 02 1.258E	02 5.105E 02 5.201E 02 5.233E 02 5.260E	02 1.280E 02 02 1.362E 02 02 1.481E 02 02 1.580E 02
8.305E-02 2. 7.355E-02 2. 6.1115-02 2.	.08/E 03 .0855 03 .0875 03	5.327F 02 7 5.369F 02 7 5.403F 02 7 5.415F 02 7	.265E-02 1.692 .202E-02 1.787 .146E-02 1.858 .101E-02 1.914 .085E-02 1.941	E 02 1.279E C 02 1.290E E 02 1.299E E 02 1.302E	02 5.354E 02 5.398E 02 5.433E 02 5.447E	02 1.868E 02 02 1.924E 02 02 1.951E 02
2.1715-02 Z 6.2655-03 Z -1.5675-02 Z -3.7125-02 Z	.088F 03 .088E 03	5.428 02 7 5.420 02 7 5.419 02 7 5.415 02 7	.0746-02 1.950 .2686-02 1.948 .0806-02 1.945 .0806-02 1.950 .0856-02 1.965	E 02 1.305E E 02 1.303E L 02 1.303E E 02 1.302E	U2 5.460E 02 5.451E U2 5.451E U2 5.447E	02 1.958E 02 02 1.955E 02 02 02
-7.641F-02 2. -8.689E-02 2. -9.689E 02 2. -1.0753-01 2.	.088E 03 .087E 03 .085E 03 .080E 03	5.390° 02 7 5.352E 02 7 5.298F 02 7 5.239F 02 7	.242E-02 1.731 .323E-02 1.575	E 02 1.296E E 02 1.286E E 02 1.272E E 02 1.257E	02 5.420£ 02 5.380£ 02 5.323£ 02 5.260£	02 02 02 02
-1-1856-01 2	.070E 03 .048E 03 .06E 03	5.177 02 7	.382F-02 1.44- .412E-02 1.378 .4.9E-02 1.297	t 02 1.241E	U2 5.192E	02

	0.646.71						
X(FT) 5.0458E-	RS(FT) 01 1.8327E-	HJ{#M/ -01 6.0924					18TU/#R) 1000E-01
7,04705-	01 1.03216	-01 0.0724	15-01 2-0495;	. 03 2.671	05 01 104	0000 00 2.	40005-01
R(FT)	PT(PSF)	TS(R)	RHO(#M/FT3) L	JX(FT/SEC)	H(8TU/#)	TT(P)	UADJ(FT/SEC)
2.217E-01	2.058F 03	4.829E 02	7.940E-02 9	9.695t O1	1.156E U2	4.836E 02	9.695E U1
_2.037E-01	2-458E 03	_4.829E _12_				4.836E_02_	9.641E. Ql
1.894E-01	2.058E C3	4.829E 02			1.156E 02	4.836E 02	9.641E 01
1.756E-01 1.622E-01	2.058E 03	4.847E 02			1.160E 02 1.169E 02	4.855E 02 4.893E 02	9.697E 01 9.831E 01
1.535#-01	2.059E 03	4.945E 07			1.184E U2	4.9545 02	1.017E 02
1.443E-01	1.0605 03	5. 03 7E 02			1.206E 02	5.045L 02	1.064E 02
1.350c-01	2.062E_03_	5.1095 02		1.153E 02.		5-120E 02.	1.153E 02.
1.254F-01	2.065E 03	5.160F 02			1.237E 02	5.174E 02	1.288E 02
1.159F-01	2.070E 03	5.220E 02			1.252E 02	5.237E 02	1.442E 02
1-066E-01 9-690E-02	2.075E 03 2.080E 03	5.252E 02 5.298E 02			1.269E 02 1.272E 02	5.273E 02 5.323E 02	1.595E 02 1.725E 02
8.772E-02	2.084F 03	5.344E 02			1.2848 03	5.372E 02	1.823E 02
7.823F-02	2.086E 03	5.3918 02			1,295E.UZ	5.420E 02	1.879E 02
6.890E-02	2.087E 03	5.420F 02			1.303E 02	5.451E 02	1.923E 02
5.95602	2.088E 03	5.437E 02			1.308E 02	5.469E 02	1.943E 02
4.679F-02	2.088F 03	5.441E 02			1.308E 02	5.473E 02	1.954E 02
2.715E-02 7.338E-03	2.089£ 03 2.089£ 03	5.441E 02 5.432E 02			1.306E 02	5.473E 02 5.464E 02	1.9586 02 1.959E 02
-1.231E-02	2.088E 03	5.437E 02		1.953E. Q2		5.459E 02	114976 02
-3.245F-02	2.088E 03	5.437E 02			1.307E 02	5.469E U2	
-5.242E-02	2.089E 03	5.432E 02			1.306E 02	5.464E 02	
-7.174E-02	2.088E 03	5.407E 02			1.300E 02	5.438E U2	
-8-3698-02	2.0855 03	5.356E 02			1.287E 02	5.385E 02	
-9.662F-02	2.0608 03	5-294E 02			1.271E 02	5.318t UZ	
-1-038E-01 -1-112E-01	2.076E 03 2.072E 03	5.215E 02 5.228E 02		1.500E 02	1.254E 02	5.246E 02	
-1.184E-01	2.0688 03	5.195E 02			1.2468 02	5.210E 02	
-1.251E-01	2.065E U3	5.156E 02		1.271E 02	1.235E 02	5.170E 02	
-1.264E-01	2.064E 03	5.148E 02	7.454E-02	1.2478 02	1.233E 02	5.161E 0Z	
					·		
Y/FT)	L S / ET 1	L I I M M	CECL DSIDE	FI Mu		AM CD	(ATII/#D)
X(FT) 6.3615E-	65(FT) 01 1.8817E	#J{#M; 01 6.103					{BTU/#R} 4000E-01
X(FT) 6.3615E-							(BTU/#R) 4000E-01
6.3615E- 	01 1.8817E	-01 6.103°	RHO(#M/FT3)	E 03 2.897 Ux(FT/SEC)	OE 01 1.4	17(R;	4000E-01 UADJ(FT/SEC)
6.3615E- R(FT) 2.143E-01	01 1.8817E PT(PSF) 2.058E 03	-01 6.103° T\$;R) 4.848E 02	RHO(#M/FT3) (7.915E-02	E 03 2.897 Ux(FT/SEC) 9.660E 01	OE OL 1.4 H(8TU/#) 1.160F 02	TT(R; 4.855E 02	4000E-01 UADJ(FT/SEC) 9.66UE 01
6.3615E- R(FT) 2.143E-01 1.942E-01	01 1.8817E PT(PSF) 2.058E 03 2.056E 03	TS;R) 4.848E 02 4.848E 02	RHO(#M/FT3) (7-915E-02 (7-915E-02 (E 03 2.897 UX(FT/SEC) 9.660E 01 9.660E 01	OE 01 1.4 H(8TU/#) 1.160F 02 1.160E 02	TT(R; 4.855E 02 4.855E 02	4000E-01 UADJ(FT/SEC) 9.66UE 01 9.66DE 01
6.3615E- R(FT) 2.143E-01 1.942E-01 1.768F-01	01 1.8817E PT(PSF) 2.058E 03 2.056E 03 2.056E G3	TS;R) 4.848E 02 4.848E 02 4.871F 02	RHO(#M/FT3) 7.915E-02 7.915E-02 7.877E-02	E 03 2.897 UX(FT/SEC) 9.660E 01 9.660E 01 9.700E 01	H(8TU/#) 1.160F U2 1.160F U2 1.166E U2	TT(R; 4.855E 02 4.855E 02 4.879E 02	4000E-01 UADJ(FT/SEC) 9.660E 01 9.700E 01
8.3615E- R(FT) 2.143E-01 1.942E-01 1.768F-01 1.636E-01	01 1.8817E PT(PSF) 2.058E 03 2.058E 03 2.058E 03 2.058E 03	TS;R) 4.848E 02 4.848E 02 4.871F 02 4.913E 02	RHO(#M/FT3) 7.915E-02 7.915E-02 7.915E-02 7.877E-02 7.810E-02	E 03 2.897 UX(FT/SEC) 9.660E 01 9.660E 01 9.700E 01 9.905E 01	H(8TU/#) 1.160F 02 1.160E 02 1.166E 02 1.176E 02	TT(R; 4.855E 02 4.855E 02 4.879E 02 4.921E 02	4000E-01 UADJ(FT/SEC) 9.660E 01 9.700E 01 9.905E 03
6.3615E- R(FT) 2.143E-01 1.942E-01 1.768F-01	01 1.8817E PT(PSF) 2.058E 03 2.056E 03 2.056E G3	TS;R) 4.848E 02 4.848E 02 4.871F 02	RHO(#M/FT3) 7-915E-02 7-915E-02 7-915E-02 7-817E-02 7-810E-02 7-659E-02	E 03 2.897 UX(FT/SEC) 9.660E 01 9.660E 01 9.700E 01	H(8TU/#) 1.160F U2 1.160F U2 1.166E U2	TT(R; 4.855E 02 4.855E 02 4.879E 02	4000E-01 UADJ(FT/SEC) 9.660E 01 9.700E 01
R(FT) 2.143E-01 1.942E-01 1.768F-01 1.508E-01 1.508E-01 1.436E-01 1.364E-01	01 1.8817E PT(PSF) 2.058E 03 2.058E 03 2.058E 03 2.059E 03 2.059E 03 2.069E 03 2.062E 03	TS;R) 4.848E 02 4.848E 02 4.871F 02 4.913E 02 5.009E 02 5.122E 02	RHO(#M/FT3) 7-915E-02 7-915E-02 7-817E-02 7-810E-02 7-810E-02 7-57E-02 7-57E-02 7-91E-02	E 03 2.897 UX(FT/SEC) 9.660E 01 9.660E 01 9.700E 01 9.905E 01 1.049E 02 1.092E 02	H(8TU/#) 1.160F 02 1.160F 02 1.166F 02 1.176F 02 1.176F 02 1.127F 02	TT(R; 4.855E 02 4.855E 02 4.879E 02 4.921E 02 5.019E 02 5.019E 02 5.133E 02	4000E-01 UADJ(FT/SEC) 9.660E 01 9.600E 01 9.700E 01 9.905E 03 1.049E 02 1.092E 02
6.3615E- R(FT) 2.143E-01 1.942E-01 1.768F-01 1.636E-01 1.508E-01 1.436E-01 1.364E-01 1.292E-01	01 1.8817E PT(PSF) 2.058E 03 2.058E 03 2.058E 03 2.059E 03 2.059E 03 2.060E 03 2.062E 03 2.064E 03	TS;R) 4.848E 02 4.848E 02 4.871F 02 4.913E 02 5.004E 02 5.122E 02 5.161F 02	RHO(#M/FT3) 7.915E-02 7.915E-02 7.915E-02 7.877E-02 7.810E-02 7.659E-02 7.577E-02 491E-02 434E-02	E 03 2.897 UX(FT/SEC) 9.660E 01 9.660E 01 9.700E 01 9.905E 01 1.049E 02 1.092E 02 1.165E 02 1.253E 02	H(8TU/#) 1.160F 02 1.160E 02 1.166E 02 1.176E 02 1.19E 02 1.21ZE 02 1.22TE 02 1.236E 02	TT(R; 4.855E 02 4.855E 02 4.879E 02 4.921E 02 5.019E 02 5.074E 02 5.133E 02 5.174E 02	4000E-01 UADJ(FT/SEC) 9.660E 01 9.700E 01 9.700E 01 1.049E 02 1.092E 02 1.165E 02 1.253E 02
6.3015E- R(FT) 2.143E-01 1.942E-01 1.768F-01 1.636E-01 1.508E-01 1.364E-01 1.364E-01 1.292E-01 1.216F-01	01 1.8817E PT(PSF) 2.058E 03 2.058E 03 2.058E 03 2.058E 03 2.059E 03 2.059E 03 2.060E 03 2.062E 03 2.062E 03 2.062E 03 2.062E 03	TS;R) 4.848E 02 4.848E 02 4.871F 02 4.913E 02 5.004E 02 5.161E 02 5.200E 02	RHO(#M/FT3) 7-915E-02 7-915E-02 7-915E-02 7-910E-02 7-910E-02 7-659E-02 7-577E-02 491E-02 434E-02 7-379E-02	E 03 2.897 UX(FT/SEC) 9.660E 01 9.660E 01 9.700E 01 9.700E 02 1.049E 02 1.092E 02 1.165E 02 1.253E 02	H(8TU/#) 1.160F 02 1.160E 02 1.166E 02 1.176E 02 1.179E 02 1.212E 02 1.227E 02 1.236E 02 1.246E 02	TT(R; 4.855E 02 4.855E 02 4.875E 02 4.921E 02 5.019E 02 5.074E 02 5.133E 02 5.174E 02 5.215E 02	4000E-01 UADJ(FT/SEC) 9.660E 01 9.060E 01 9.700E 01 1.049E 02 1.049E 02 1.052E 02 1.155E 02 1.155E 02
R(FT) 2.143E-01 1.942E-01 1.768F-01 1.636E-01 1.508E-01 1.436E-01 1.364E-01 1.292E-01 1.216F-01 1.143E-01	01 1.8817E PT(PSF) 2.058E 03 2.058E 03 2.058E 03 2.058E 03 2.058E 03 2.058E 03 2.058E 03 2.058E 03 2.060E 03 2.062E 03 2.064E 03 2.067E 03 2.067E 03	TS;R) 4.848E 02 4.848E 02 4.871F 02 4.913E 02 5.009E 02 5.064E 02 5.122E 02 5.1261E 02 5.233F 02	RHO(#M/FT3) 7-915E-02 7-915E-02 7-915E-02 7-817E-02 7-659E-02 7-659E-02 7-577E-02 	E 03 2.897 UX(FT/SEC) 9.660E 01 9.660E 01 9.700E 01 9.700E 01 1.049E 02 1.092E 02 1.165E 02 1.253E 02 1.359E 02	H(8TU/#) 1.160F 02 1.160E 02 1.166E 02 1.176E 02 1.176E 02 1.21ZE 02 1.21ZE 02 1.23GE 02 1.246E 02 1.255E 02	TT(R; 4.855E 02 4.855E 02 4.879E 02 4.921E 02 5.019E 02 5.074E 02 5.133E 02 5.174E 02 5.215E 02 5.251E 02	4000E-01 UADJ(FT/SEC) 9.660E 01 9.660E 01 9.700E 01 9.905E 01 1.049E 02 1.092E 02 1.165E 02 1.359E 02 1.460E 02
R(FT) 2.143E-01 1.942E-01 1.768F-01 1.636E-01 1.508E-01 1.364E-01 1.292E-01 1.216F-01 1.143E-01 1.070E-01	01 1.8817E PT(PSF) 2.058E 03 2.058E 03 2.058E 03 2.058E 03 2.059E 03 2.060E 03 2.062E 03 2.062E 03 2.067E 03 2.067E 03 2.074E 03	-01 6.103° TS;R) 4.848E 02 4.848E 02 4.871F 02 5.009E 02 5.064E 02 5.122E 02 5.161E 02 5.233F 02 5.253E 02	RHO(#M/FT3) 7.915E-02 7.915E-02 7.915E-02 7.877E-02 7.810E-02 7.659E-02 7.577E-02 434E-02 7.379E-01 7.304E-02	E 03 2.897 UX(FT/SEC) 9.660E 01 9.660E 01 9.700E 01 9.905E 01 1.049E 02 1.092E 02 1.165E 02 1.359E 02 1.466E 02 1.466E 02	H(8TU/#) 1.160F 02 1.160E 02 1.166E 02 1.176E 02 1.176E 02 1.212E 02 1.212E 02 1.227E 02 1.236E 02 1.255E 02 1.261E 02	TT(R; 4.855E 02 4.855E 02 4.879E 02 4.921E 02 5.019E 02 5.133E 02 5.174E 02 5.215E 02 5.273E 02	4000E-01 UADJ(FT/SEC) 9.660E 01 9.060E 01 9.700E 01 1.049E 02 1.049E 02 1.052E 02 1.155E 02 1.155E 02
R(FT) 2.143E-01 1.942E-01 1.768F-01 1.636E-01 1.508E-01 1.436E-01 1.364E-01 1.292E-01 1.216F-01 1.143E-01	01 1.8817E PT(PSF) 2.058E 03 2.058E 03 2.058E 03 2.058E 03 2.058E 03 2.058E 03 2.058E 03 2.058E 03 2.060E 03 2.062E 03 2.064E 03 2.067E 03 2.067E 03	TS;R) 4.848E 02 4.848E 02 4.871F 02 4.913E 02 5.009E 02 5.064E 02 5.122E 02 5.1261E 02 5.233F 02	RHO(#M/FT3) 7-915E-02 7-915E-02 7-810E-02 7-810E-02 7-659E-02 7-91F-02 434E-02 7-332E-02 7-265E-02	E 03 2.897 UX(FT/SEC) 9.660E 01 9.660E 01 9.700E 01 9.700E 01 1.049E 02 1.092E 02 1.165E 02 1.253E 02 1.359E 02	H(8TU/#) 1.160F 02 1.160E 02 1.166E 02 1.176E 02 1.176E 02 1.21ZE 02 1.21ZE 02 1.23GE 02 1.246E 02 1.255E 02	TT(R; 4.855E 02 4.855E 02 4.879E 02 4.921E 02 5.019E 02 5.074E 02 5.133E 02 5.174E 02 5.215E 02 5.251E 02	4000E-01 UADJ(FT/SEC) 9.660E 01 9.700E 01 9.700E 03 1.049E 02 1.092E 02 1.1559E 02 1.359E 02 1.460E 02 1.572E 02
R(FT) 2.143E-01 1.942E-01 1.768F-01 1.636E-01 1.508E-01 1.3648-01 1.292E-01 1.216F-01 1.43E-01 1.070E-01 9.950E-02 9.196E-02 8.426E-02	01 1.8817E PT(PSF) 2.058E 03 2.060E 03 2.060E 03 2.064E 03 2.067E 03 2.074E 03 2.074E 03 2.074E 03 2.078E 03 2.084E 03	-01 6.103* TS;R) 4.848E 02 4.848E 02 4.871F 02 4.913E 02 5.004E 02 5.064E 02 5.122E 02 5.12161F 02 5.233F 02 5.253E 02 5.254E 02 5.315E 02 5.315E 02 5.348E 02	RHO(#M/FT3) 7-915E-02 7-915E-02 7-915E-02 7-915E-02 7-659E-02 7-659E-02 7-577E-02 	E 03 2.897 UX(FT/SEC) 9.660E 01 9.660E 01 9.700E 01 9.700E 01 1.049E 02 1.092E 02 1.165E 02 1.253E 02 1.359E 02 1.466E 02 1.572c 02 1.674E 02 1.748E 02 1.748E 02	H(8TU/#) 1.160F 02 1.160E 02 1.166E 02 1.176E 02 1.176E 02 1.21ZE 02 1.21ZE 02 1.23GE 02 1.255E 02 1.255E 02 1.261E 02 1.276E 02 1.276E 02 1.276E 02 1.276E 02 1.276E 02	TT(R; 4.855E 02 4.855E 02 4.879E 02 4.921E 02 5.019E 02 5.074E 02 5.133E 02 5.174E 02 5.251E 02 5.251E 02 5.273E 02 5.305E 02 5.376E 02 5.376E 02	4000E-01 UADJ(FT/SEC) 9.660E 01 9.660E 01 9.700E 01 9.905E 01 1.049E 02 1.092E 02 1.155E 02 1.359E 02 1.460E 02 1.572E 02 1.674E 02 1.748E 02 1.823E 02
R(FT) 2.143E-01 1.942E-01 1.768F-01 1.636E-01 1.508E-01 1.364E-01 1.292E-01 1.216F-01 1.143E-01 1.070E-01 9.950E-02 9.196E-02 8.426E-02 7.706E-02	01 1.8817E PT(PSF) 2.058E 03 2.062E 03 2.062E 03 2.064E 03 2.074E 03 2.074E 03 2.074E 03 2.078E 03 2.081E 03 2.085E 03	-01 6.103* TS;R1 4.848E 02 4.848E 02 4.871F 02 4.913E 02 5.009E 02 5.122E 02 5.161E 02 5.200E 02 5.233F 02 5.261F 02 5.261F 02 5.263F 02 5.263F 02 5.348E 02 5.382F 02	RHO(#M/FT3) 7.915E-02 7.915E-02 7.877E-02 7.659E-02 7.577E-02 434E-02 7.379E-02 7.304E-02 7.265E-02 7.219E-02 7.174E-02	E 03 2.897 UX(FT/SEC) 9.660E 01 9.660E 01 9.700E 01 9.700E 01 1.049E 02 1.092E 02 1.165E 02 1.359E 02 1.466E 02 1.572c 02 1.674E 02 1.748E 02 1.673E 02	H(8TU/#) 1.160F 02 1.160E 02 1.166E 02 1.176E 02 1.176E 02 1.27E 02 1.236E 02 1.236E 02 1.256E 02 1.261E 02 1.261E 02 1.276E 02 1.276E 02 1.276E 02 1.276E 02 1.276E 02	**************************************	4000E-01 UADJ(FT/SEC) 9.660E 01 9.700E 01 9.700E 01 1.049E 02 1.092E 02 1.1559E 02 1.359E 02 1.460E 02 1.572E 02 1.674E 02 1.823E 02 1.823E 02
R(FT) 2.143E-01 1.942E-01 1.768F-01 1.508E-01 1.508E-01 1.364E-01 1.292E-01 1.216F-01 1.143E-01 1.070E-01 9.950E-02 9.196E-02 8.426F-02 7.706E-02 0.969E-02	01 1.8817E PT(PSF) 2.058E 03 2.058E 03 2.058E 03 2.059E 03 2.059E 03 2.062E 03 2.062E 03 2.062E 03 2.064E 03 2.074E 03 2.074E 03 2.074E 03 2.078E 03 2.081E 03 2.081E 03 2.081E 03 2.087E 03	-01 6.103* TS;R) 4.848E 02 4.848E 02 4.871F 02 5.009E 02 5.064E 02 5.161E 02 5.200E 02 5.233F 02 5.253E 02 5.251F 02 5.261F 02 5.261F 02 5.315E 02 5.382F 02 5.382F 02 5.382F 02 5.408E 02	RHO(#M/FT3) 7.915E-02 7.915E-02 7.877E-02 7.810E-02 7.577E-02 7.577E-02 434E-02 7.379E-02 7.32E-02 7.265E-02 7.219E-02 7.129E-02 7.129E-02 7.129E-02 7.095E-02	E 03 2.897 UX(FT/SEC) 9.660E 01 9.660E 01 9.700E 01 9.700E 02 1.049E 02 1.092E 02 1.165E 02 1.359E 02 1.359E 02 1.466E 02 1.572C 02 1.674E 02 1.748E 02 1.873E 02 1.873E 02 1.873E 02 1.908E 02	H(8TU/#) 1-160F 02 1-160F 02 1-166E 02 1-176E 02 1-212E 02 1-227E 02 1-236E 02 1-246E 02 1-268E 02	TT(R; 4.855E 02 4.855E 02 4.875E 02 4.921E 02 5.019E 02 5.074E 02 5.174E 02 5.215E 02 5.273E 02 5.273E 02 5.305E 02 5.376E 02 5.411E 02 5.411E 02 5.438E 02	4000E-01 UADJ(FT/SEC) 9.660E 01 9.700E 01 9.700E 03 1.049E 02 1.092E 02 1.1559E 02 1.466E 02 1.572E 02 1.674E 02 1.674E 02 1.823E 02 1.873E 02 1.878E 02 1.878E 02
6.3015E- R(FT) 2.143E-01 1.768F-01 1.636E-01 1.508E-01 1.364E-01 1.292E-01 1.216F-01 1.143E-01 1.070E-01 9.950E-02 9.196E-02 8.426E-02 7.706E-02 6.949E-02	01 1.8817E PT(PSF) 2.058E 03 2.058E 03 2.058E 03 2.058E 03 2.058E 03 2.059E 03 2.062E 03 2.062E 03 2.064E 03 2.074E 03 2.074E 03 2.074E 03 2.074E 03 2.081E 03 2.081E 03 2.087E 03 2.087E 03 2.087E 03	TS;R) 4.848E 02 4.848E 02 4.871F 02 4.913E 02 5.064E 02 5.161E 02 5.233F 02 5.253E 02 5.253E 02 5.2548E 02 5.348E 02 5.433E 02 5.433E 02 5.433E 02	RHO(#M/FT3) 7.915E-02 7.915E-02 7.915E-02 7.910E-02 7.659E-02 7.577E-02 434E-02 7.379E-02 7.332E-02 7.365E-02 7.265E-02 7.219E-02 7.174E-02 7.062E-02	E 03 2.897 UX(FT/SEC) 9.660E 01 9.660E 01 9.700E 01 9.700E 02 1.092E 02 1.165E 02 1.253E 02 1.359E 02 1.466E 02 1.572C 02 1.6746 02 1.748E 02 1.873E 02 1.908E 02 1.908E 02	H(8TU/#) 1.160F 02 1.160E 02 1.166E 02 1.176E 02 1.179E 02 1.227E 02 1.236E 02 1.236E 02 1.246E 02 1.261E 02 1.276E 02 1.306E 02	TT(R; 4.855E 02 4.855E 02 4.875E 02 4.921E 02 5.019E 02 5.074E 02 5.174E 02 5.174E 02 5.215E 02 5.273E 02 5.273E 02 5.305E 02 5.376E 02 5.411E 02 5.438E 02 5.464E 02	4000E-01 UADJ(FT/SEC) 9.660E 01 9.660E 01 9.700E 01 9.700E 01 1.049E 02 1.092E 02 1.0528 02 1.253E 02 1.359E 02 1.456E 02 1.572E 02 1.674E 02 1.748E 02 1.873E 02 1.993F 02
6.3015E- R(FT) 2.143E-01 1.942E-01 1.768F-01 1.636E-01 1.508E-01 1.3648-01 1.292E-01 1.216F-01 1.43E-01 1.070E-01 9.950E-02 9.196E-02 8.426F-02 7.706E-02 0.969E-02 6.249E-02 4.579E-03	01 1.8817E PT(PSF) 2.058E 03 2.060E 03 2.062E 03 2.067E 03 2.071E 03 2.074E 03 2.074E 03 2.074E 03 2.081E 03 2.081E 03 2.081E 03 2.081E 03 2.087E 03 2.087E 03 2.087E 03 2.087E 03	-01 6.103* TS;R1 4.848E 02 4.848E 02 4.871F 02 4.913E 02 5.004E 02 5.064E 02 5.122E 02 5.200E 02 5.233F 02 5.253E 02 5.261F 02 5.315F 02 5.315F 02 5.382F 02 5.382F 02 5.488E 02 5.494E 02 5.494E 02	RHO(#M/FT3) 7-915E-02 7-915E-02 7-915E-02 7-659E-02 7-577E-02	E 03 2.897 UX(FT/SEC) 9.660E 01 9.660E 01 9.700E 01 9.700E 01 1.049E 02 1.092E 02 1.165E 02 1.253E 02 1.359E 02 1.572c 02 1.674E 02 1.748E 02 1.823E 02 1.873E 02 1.908E 02 1.938E 02	H(8TU/#) 1.160F 02 1.160E 02 1.166E 02 1.179E 02 1.27E 02 1.27E 02 1.236E 02 1.255E 02 1.261E 02 1.264E 02 1.276E 02 1.300E 02 1.311E 02	TT(R; 4.855E 02 4.855E 02 4.879E 02 4.879E 02 5.019E 02 5.074E 02 5.133E 02 5.174E 02 5.251E 02 5.273E 02 5.273E 02 5.376E 02 5.376E 02 5.496E 02 5.486E 02 5.486E 02	4000E-01 UADJ(FT/SEC) 9.660E 01 9.660E 01 9.700E 01 9.905E 01 1.049E 02 1.092E 02 1.1559E 02 1.359E 02 1.466E 02 1.572E 02 1.674E 02 1.748E 02 1.823E 02 1.823E 02 1.933F 02 1.933F 02 1.958E 02
6.3015E- R(FT) 2.143E-01 1.768F-01 1.636E-01 1.508E-01 1.364E-01 1.292E-01 1.216F-01 1.143E-01 1.070E-01 9.950E-02 9.196E-02 8.426E-02 7.706E-02 6.949E-02	01 1.8817E PT(PSF) 2.058E 03 2.058E 03 2.058E 03 2.058E 03 2.058E 03 2.059E 03 2.062E 03 2.062E 03 2.064E 03 2.074E 03 2.074E 03 2.074E 03 2.078E 03 2.081E 03 2.081E 03 2.087E 03 2.087E 03 2.088E 03 2.088E 03 2.088E 03 2.088E 03 2.088E 03	-01 6.103* TS;R1 4.848E 02 4.848E 02 4.871F 02 4.913E 02 5.004E 02 5.122E 02 5.122E 02 5.125E 02 5.233F 02 5.261F 02 5.261F 02 5.315E 02 5.345E 02 5.348E 02 5.498E 02 5.498E 02 5.493E 02 5.493E 02 5.494E 02 5.454E 02	RHO(#M/FT3) 7-915E-02 7-915E-02 7-915E-02 7-817E-02 7-819E-02 7-8579E-02 434E-02 7-332E-02 7-304E-02 7-265E-02 7-1245E-02 7-1245E-02 7-055E-02 7-035E-02 7-035E-02	E 03 2.897 UX(FT/SEC) 9.660E 01 9.660E 01 9.700E 01 9.700E 02 1.092E 02 1.165E 02 1.253E 02 1.359E 02 1.466E 02 1.572C 02 1.6746 02 1.748E 02 1.873E 02 1.908E 02 1.908E 02	H(8TU/#) 1.160F 02 1.160E 02 1.166E 02 1.176E 02 1.179E 02 1.227E 02 1.236E 02 1.236E 02 1.246E 02 1.261E 02 1.276E 02 1.306E 02	TT(R; 4.855E 02 4.855E 02 4.855E 02 4.921E 02 5.019E 02 5.074E 02 5.174E 02 5.215E 02 5.273E 02 5.273E 02 5.340E 02 5.340E 02 5.411E 02 5.436E 02 5.464E 02 5.486E 02 5.486E 02 5.486E 02 5.486E 02 5.486E 02	4000E-01 UADJ(FT/SEC) 9.660E 01 9.660E 01 9.700E 01 9.700E 01 1.049E 02 1.092E 02 1.0528 02 1.253E 02 1.359E 02 1.456E 02 1.572E 02 1.674E 02 1.748E 02 1.873E 02 1.993F 02
6.3015E- R(FT) 2.143E-01 1.768F-01 1.636E-01 1.508E-01 1.364E-01 1.292E-01 1.216F-01 1.143E-01 1.070E-01 9.950E-02 8.426E-02 7.706E-02 0.969E-02 4.579E-02 2.893E-02 1.255E-02 -3.818E-03	01 1.8817E PT(PSF) 2.058E 03 2.062E 03 2.062E 03 2.064E 03 2.074E 03 2.074E 03 2.074E 03 2.081E 03 2.081E 03 2.085E 03 2.087E 03 2.087E 03 2.087E 03 2.087E 03 2.087E 03 2.088E 03 2.089E 03 2.089E 03 2.089E 03	-01 6.103* TS;R1 4.848E 02 4.848E 02 4.871F 02 5.009F 02 5.064E 02 5.122E 02 5.200E 02 5.233F 02 5.253E 02 5.253E 02 5.253E 02 5.253E 02 5.348E 02 5.404E 02 5.454E 02 5.454E 02 5.454E 02 5.454E 02	RHO(#M/FT3) 7-915E-02 7-915E-02 7-915E-02 7-915E-02 7-910E-02 7-659E-02 7-577E-02 434E-02 7-379E-02 7-332E-02 7-34E-02 7-129E-02 7-129E-02 7-129E-02 7-035E-02 7-035E-02 7-035E-02 7-035E-02	E 03 2.897 UX(FT/SEC) 9.660E 01 9.660E 01 9.700E 01 9.700E 01 1.049E 02 1.092E 02 1.165E 02 1.253E 02 1.359E 02 1.572C 02 1.572C 02 1.6748 02 1.6748 02 1.748E 02 1.903E 02 1.904E 02 1.904E 02	H(8TU/#) 1.160F 02 1.160E 02 1.166E 02 1.179E 02 1.27E 02 1.27E 02 1.236E 02 1.255E 02 1.261E 02 1.261E 02 1.261E 02 1.276E 02 1.276E 02 1.276E 02 1.276E 02 1.30E 02 1.311E 02 1.311E 02	TT(R; 4.855E 02 4.855E 02 4.855E 02 4.921E 02 5.019E 02 5.074E 02 5.174E 02 5.174E 02 5.215E 02 5.273E 02 5.305E 02 5.340E 02 5.340E 02 5.411E 02 5.438E 02 5.486E 02 5.486E 02 5.486E 02 5.486E 02 5.486E 02 5.486E 02	4000E-01 UADJ(FT/SEC) 9.660E 01 9.700E 01 9.700E 01 1.092E 02 1.092E 02 1.1559E 02 1.359E 02 1.359E 02 1.466E 02 1.572E 02 1.674E 02 1.748E 02 1.873E 02 1.873E 02 1.998E 02 1.959E 02 1.959E 02
6.3015E- R(FT) 2.143E-01 1.942E-01 1.768F-01 1.636E-01 1.508E-01 1.3648-01 1.292E-01 1.216F-01 1.43E-01 1.070E-02 9.196E-02 9.196E-02 6.249E-02 4.579E-03 2.893E-02 1.255E-02 -3.818E-03 -2.052E-02	01 1.8817E PT(PSF) 2.058E 03 2.060E 03 2.062E 03 2.067E 03 2.071E 03 2.074E 03 2.074E 03 2.078E 03 2.081E 03 2.081E 03 2.087E 03 2.088E 03 2.088E 03 2.088E 03 2.089E 03 2.089E 03	-01 6.103* TS;R1 4.848E 02 4.848E 02 4.871F 02 4.913E 02 5.004E 02 5.064E 02 5.122E 02 5.200E 02 5.233F 02 5.253E 02 5.261F 02 5.315F 02 5.315F 02 5.348E 02 5.48E 02 5.494E 02 5.454E 02 5.454E 02 5.454E 02 5.454E 02 5.454E 02 5.454E 02	RHO(#M/FT3) 7-915E-02 7-915E-02 7-915E-02 7-877E-02 7-659E-02 7-577E-02 434E-02 7-332E-02 7-332E-02 7-34E-02 7-129E-02 7-129E-02 7-035E-02 7-035E-02 7-035E-02 7-035E-02 7-035E-02 7-035E-02 7-035E-02 7-035E-02 7-035E-02	E 03 2.897 UX(FT/SEC) 9.660E 01 9.660E 01 9.700E 01 9.700E 01 1.049E 02 1.092E 02 1.165E 02 1.253E 02 1.359E 02 1.572c 02 1.572c 02 1.572c 02 1.748E 02 1.748E 02 1.908E 02 1.938E 02 1.938E 02 1.958E 02 1.958E 02 1.958E 02 1.958E 02 1.960E 02	H(8TU/#) 1.160F 02 1.160E 02 1.166E 02 1.179E 02 1.212E 02 1.212E 02 1.236E 02 1.255E 02 1.261E 02 1.264E 02 1.276E 02 1.276E 02 1.276E 02 1.276E 02 1.276E 02 1.276E 02 1.310E 02 1.311E 02 1.311E 02 1.311E 02 1.312E 02	TTTR; 4.855E 02 4.855E 02 4.879E 02 4.879E 02 5.019E 02 5.074E 02 5.133E 02 5.174E 02 5.251E 02 5.273E 02 5.273E 02 5.340E 02 5.496E 02 5.486E 02	4000E-01 UADJ(FT/SEC) 9.660E 01 9.700E 01 9.700E 01 1.092E 02 1.092E 02 1.1559E 02 1.359E 02 1.359E 02 1.466E 02 1.572E 02 1.674E 02 1.748E 02 1.873E 02 1.873E 02 1.998E 02 1.959E 02 1.959E 02
6.3015E- R(FT) 2.143E-01 1.942E-01 1.768F-01 1.636E-01 1.436E-01 1.3648-01 1.292E-01 1.216F-01 1.143E-01 1.070E-01 9.950E-02 9.196E-02 6.249E-02 6.249E-02 4.579E-02 2.893E-02 1.255E-02 -3.818E-03 -2.052E-02 -3.722E-02	01 1.8817E PT(PSF) 2.058E 03 2.060E 03 2.060E 03 2.067E 03 2.071E 03 2.071E 03 2.074E 03 2.078E 03 2.089E 03	-01 6.103* TS;R1 4.848E 02 4.848E 02 4.871F 02 4.913E 02 5.004E 02 5.064E 02 5.122E 02 5.122E 02 5.233F 02 5.253E 02 5.253E 02 5.253E 02 5.253E 02 5.315E 02 5.315E 02 5.315E 02 5.3454E 02 5.454E 02	RHO(#M/FT3) 7-915E-02 7-915E-02 7-915E-02 7-817E-02 7-819E-02 7-859E-02 7-859E-02 7-332E-02 7-332E-02 7-34E-02 7-129E-02 7-129E-02 7-055E-02 7-035E-02	E 03 2.897 UX(FT/SEC) 9.660E 01 9.660E 01 9.700E 01 9.700E 01 1.049E 02 1.092E 02 1.165E 02 1.253E 02 1.359E 02 1.359E 02 1.572c 02 1.674E 02 1.748E 02 1.623E 02 1.938E 02 1.938E 02 1.959E 02 1.959E 02 1.959E 02 1.962E 02 1.965E 02	H(8TU/#) 1.160F 02 1.160E 02 1.166E 02 1.176E 02 1.176E 02 1.236E 02 1.236E 02 1.255E 02 1.261E 02 1.268E 02 1.268E 02 1.268E 02 1.268E 02 1.268E 02 1.268E 02 1.278E 02 1.318E 02 1.311E 02 1.311E 02 1.311E 02 1.311E 02 1.311E 02	**************************************	4000E-01 UADJ(FT/SEC) 9.660E 01 9.700E 01 9.700E 01 1.092E 02 1.092E 02 1.1559E 02 1.359E 02 1.359E 02 1.466E 02 1.572E 02 1.674E 02 1.748E 02 1.873E 02 1.873E 02 1.998E 02 1.959E 02 1.959E 02
6.3015E- R(FT) 2.143E-01 1.768F-01 1.636E-01 1.508E-01 1.364E-01 1.364E-01 1.292E-01 1.216F-01 1.143E-01 1.070E-01 9.950E-02 9.196E-02 8.426E-02 7.706E-02 6.249E-02 4.579E-02 2.893E-02 -3.818E-03 -2.052E-02 -3.722E-02 -5.113E-02	01 1.8817E PT(PSF) 2.058E 03 2.062E 03 2.062E 03 2.067E 03 2.074E 03 2.074E 03 2.074E 03 2.081E 03 2.081E 03 2.087E 03 2.088E 03 2.088E 03 2.089E 03 2.088E 03	-01 6.103* TS;R) 4.848E 02 4.848E 02 4.871F 02 5.004E 02 5.064E 02 5.206E 02 5.233F 02 5.233F 02 5.251F 02 5.251F 02 5.251F 02 5.315E 02 5.361F 02 5.348E 02 5.454E 02	RHO(#M/FT3) 7.915E-02 7.915E-02 7.915E-02 7.915E-02 7.910E-02 7.659E-02 7.577E-02 434E-02 7.379E-02 7.332E-02 7.365E-02 7.265E-02 7.219E-02 7.174E-02 7.05E-02 7.035E-02	E 03 2.897 UX(FT/SEC) 9.660E 01 9.660E 01 9.700E 01 9.700E 01 1.049E 02 1.092E 02 1.165E 02 1.359E 02 1.359E 02 1.466E 02 1.572c 02 1.6748E 02 1.6748E 02 1.908E 02 1.958E 02 1.958E 02 1.958E 02 1.958E 02 1.958E 02 1.958E 02	H(8TU/#) 1.160F 02 1.166E 02 1.166E 02 1.176E 02 1.176E 02 1.276E 02 1.236E 02 1.246E 02 1.255E 02 1.266E 02 1.266E 02 1.276E 02 1.276E 02 1.276E 02 1.306E 02 1.316E 02	TTTR; 4.855E 02 4.855E 02 4.855E 02 4.855E 02 4.921E 02 5.019E 02 5.074E 02 5.174E 02 5.215E 02 5.273E 02 5.273E 02 5.340E 02 5.376E 02 5.376E 02 5.411E 02 5.436E 02 5.486E 02	4000E-01 UADJ(FT/SEC) 9.660E 01 9.700E 01 9.700E 01 1.092E 02 1.092E 02 1.1559E 02 1.359E 02 1.359E 02 1.466E 02 1.572E 02 1.674E 02 1.748E 02 1.873E 02 1.873E 02 1.998E 02 1.959E 02 1.959E 02
6.3015E- R(FT) 2.143E-01 1.942E-01 1.768F-01 1.636E-01 1.436E-01 1.3648-01 1.292E-01 1.216F-01 1.143E-01 1.070E-01 9.950E-02 9.196E-02 6.249E-02 6.249E-02 4.579E-02 2.893E-02 1.255E-02 -3.818E-03 -2.052E-02 -3.722E-02	01 1.8817E PT(PSF) 2.058E 03 2.060E 03 2.060E 03 2.067E 03 2.071E 03 2.071E 03 2.074E 03 2.078E 03 2.089E 03	-01 6.103* TS;R1 4.848E 02 4.848E 02 4.871F 02 5.009E 02 5.064E 02 5.12EE 02 5.200E 02 5.233F 02 5.253E 02 5.253E 02 5.315E 02 5.315E 02 5.348E 02 5.3454E 02 5.454E 02	RHO(#M/FT3) 7-915E-02 7-915E-02 7-915E-02 7-915E-02 7-910E-02 7-659E-02 7-577E-02 434E-02 7-379E-02 7-332E-02 7-304E-02 7-129E-02 7-129E-02 7-05E-02 7-05E-02 7-035E-02 7-036E-02 7-036E-02 7-036E-02 7-036E-02 7-036E-02 7-04E-02	E 03 2.897 UX(FT/SEC) 9.660E 01 9.660E 01 9.700E 01 9.700E 01 1.049E 02 1.092E 02 1.165E 02 1.253E 02 1.359E 02 1.572C 02 1.572C 02 1.6748E 02 1.6748E 02 1.748E 02 1.903E 02 1.933E 02 1.933E 02 1.933E 02 1.935E 02 1.955E 02 1.960E 02 1.955E 02 1.955E 02 1.955E 02 1.955E 02 1.955E 02	H(8TU/#) 1.160F 02 1.160E 02 1.166E 02 1.179E 02 1.27E 02 1.27E 02 1.266E 02 1.276E 02 1.276E 02 1.276E 02 1.276E 02 1.310E 02 1.311E 02	**************************************	4000E-01 UADJ(FT/SEC) 9.660E 01 9.660E 01 9.700E 01 9.905E 02 1.092E 02 1.092E 02 1.253E 02 1.359E 02 1.466E 02 1.572E 02 1.674E 02 1.748E 02 1.823E 02 1.823E 02 1.933F 02 1.933F 02 1.958E 02 1.958E 02 1.958E 02 1.958E 02
6.3615E- R(FT) 2.143E-01 1.942E-01 1.768F-01 1.636E-01 1.436E-01 1.3648-01 1.292E-01 1.216F-01 1.143E-01 1.070E-01 9.950E-02 9.196E-02 6.249E-02 6.249E-02 4.579E-02 2.893E-02 1.255E-02 -3.818E-03 -2.052E-02 -3.722E-02 -5.113E-02 -6.472E-02 -7.798E-02 -7.798E-02 -7.798E-02 -7.798E-02	01 1.8817E PT(PSF) 2.058E 03 2.062E 03 2.062E 03 2.064E 03 2.071E 03 2.071E 03 2.074E 03 2.078E 03 2.081E 03 2.087E 03 2.087E 03 2.088E 03 2.089E 03 2.089E 03 2.089E 03 2.089E 03 2.089E 03 2.089E 03 2.088E 03	-01 6.103 TS;R) 4.848E 02 4.848E 02 4.871F 02 5.009E 02 5.009E 02 5.161E 02 5.200E 02 5.233F 02 5.261F 02 5.261F 02 5.261F 02 5.315E 02 5.361F 02	RHO(#M/FT3) 7-915E-02 7-915E-02 7-915E-02 7-817E-02 7-819E-02 7-859E-02 7-859E-02 7-332E-02 7-332E-02 7-34E-02 7-124S-02 7-035E-02	E 03 2.897 UX(FT/SEC) 9.660E 01 9.660E 01 9.700E 01 9.700E 01 9.905E 02 1.092E 02 1.165E 02 1.253E 02 1.359E 02 1.359E 02 1.572c 02 1.674E 02 1.748E 02 1.673E 02 1.958E 02 1.959E 02 1.962E 02 1.959E 02 1.962E 02 1.962E 02 1.963E 02	H(8TU/#) 1.160F 02 1.160E 02 1.166E 02 1.176E 02 1.176E 02 1.27E 02 1.236E 02 1.236E 02 1.255E 02 1.261E 02 1.276E 02 1.311E 02	.000E 00 2. YTTR; 4.855E 02 4.879E 02 4.879E 02 5.019E 02 5.074E 02 5.133E 02 5.174E 02 5.251E 02 5.273E 02 5.340E 02 5.340E 02 5.438E 02 5.4486E 02 5.486E 02	4000E-01 UADJ(FT/SEC) 9.660E 01 9.660E 01 9.700E 01 9.905E 02 1.092E 02 1.092E 02 1.253E 02 1.359E 02 1.466E 02 1.572E 02 1.674E 02 1.748E 02 1.823E 02 1.823E 02 1.933F 02 1.933F 02 1.958E 02 1.958E 02 1.958E 02 1.958E 02
6.3015E- R(FT) 2.143E-01 1.768F-01 1.636E-01 1.508E-01 1.364E-01 1.364E-01 1.292E-01 1.216F-01 1.143E-01 1.070E-01 9.950E-02 9.196E-02 8.426E-02 7.706E-02 6.249E-02 4.579E-02 2.893E-02 1.255E-02 -3.818E-03 -2.052E-02 -3.722E-02 -5.113E-02 -6.472E-02 -7.798E-02 -7.798E-02 -7.798E-02 -7.798E-02 -1.058E-01	01 1.8817E PT(PSF) 2.058E 03 2.062E 03 2.062E 03 2.074E 03 2.074E 03 2.074E 03 2.081E 03 2.081E 03 2.082E 03 2.088E 03 2.089E 03 2.089E 03 2.088E 03	-01 6.103 TS;R1 4.848E 02 4.848E 02 4.871F 02 4.913E 02 5.004E 02 5.004E 02 5.161E 02 5.233F 02 5.251F 02 5.251F 02 5.251F 02 5.315E 02 5.315E 02 5.348E 02 5.454E 02	RHO(#M/FT3) 7.915E-02 7.915E-02 7.915E-02 7.915E-02 7.910E-02 7.659E-02 7.577E-02 434E-02 7.379E-02 7.332E-02 7.365E-02 7.265E-02 7.275E-02 7.05E-02 7.035E-02	E 03 2.897 UX(FT/SEC) 9.660E 01 9.660E 01 9.700E 01 9.700E 01 9.700E 02 1.092E 02 1.165E 02 1.253E 02 1.359E 02 1.572c 02 1.572c 02 1.6748E 02 1.573E 02 1.973E 02 1.973E 02 1.973E 02 1.973E 02 1.975E 02 1.975E 02 1.955E 02 1.955E 02 1.957E 02 1.959E 02	H(8TU/#) 1.160F 02 1.160E 02 1.166E 02 1.176E 02 1.176E 02 1.176E 02 1.276E 02 1.236E 02 1.246E 02 1.255E 02 1.261E 02 1.276E 02 1.276E 02 1.276E 02 1.300E 02 1.311E 02 1.311E 02 1.311E 02 1.312E 02	TTTR; 4.855E 02 4.855E 02 4.855E 02 4.879E 02 5.019E 02 5.0174E 02 5.133E 02 5.215E 02 5.273E 02 5.273E 02 5.305E 02 5.340E 02 5.340E 02 5.340E 02 5.486E 02	4000E-01 UADJ(FT/SEC) 9.660E 01 9.660E 01 9.700E 01 9.905E 02 1.092E 02 1.092E 02 1.253E 02 1.359E 02 1.466E 02 1.572E 02 1.674E 02 1.748E 02 1.823E 02 1.823E 02 1.933F 02 1.933F 02 1.958E 02 1.958E 02 1.958E 02 1.958E 02
6.3615E- R(FT) 2.143E-01 1.768F-01 1.636E-01 1.508E-01 1.364E-01 1.292E-01 1.216F-01 1.143E-01 1.070E-02 9.196E-02 8.426E-02 7.706E-02 9.969E-02 4.579E-02 2.893E-02 1.255E-02 -3.818E-03 -2.052E-02 -3.72E-02 -5.113E-02 -7.798E-02 -7.798E-02 -7.798E-02 -7.798E-02 -7.798E-02 -7.798E-02 -7.798E-02 -7.798E-02 -1.114E-01	01 1.8817E PT(PSF) 2.058E 03 2.058E 03 2.058E 03 2.058E 03 2.058E 03 2.058E 03 2.059E 03 2.062E 03 2.062E 03 2.067E 03 2.071E 03 2.074E 03 2.074E 03 2.081E 03 2.081E 03 2.087E 03 2.087E 03 2.088E 03 2.089E 03 2.089E 03 2.088E 03	-01 6.103 TS;R1 4.848E 02 4.848E 02 4.871F 02 5.009E 02 5.064E 02 5.12EE 02 5.200E 02 5.233F 02 5.253F 02 5.253F 02 5.253F 02 5.348E 02 5.348E 02 5.454E 02	RHO(#M/FT3) 7-915E-02 7-915E-02 7-915E-02 7-915E-02 7-910E-02 7-659E-02 7-332E-02 7-332E-02 7-34E-02 7-129E-02 7-129E-02 7-05E-02 7-05E-02 7-05E-02 7-035E-02	E 03 2.897 UX(FT/SEC) 9.660E 01 9.660E 01 9.700E 01 9.700E 01 1.049E 02 1.092E 02 1.165E 02 1.253E 02 1.359E 02 1.572c 02 1.674E 02 1.572c 02 1.674E 02 1.748E 02 1.908E 02 1.933E 02 1.933E 02 1.933E 02 1.938E 02 1.938E 02 1.938E 02 1.948E 02 1.959E 02 1.959E 02 1.960E 02 1.959E 02 1.960E 02 1.955E 02 1.976E 02 1.955E 02 1.976E 02 1.955E 02 1.955E 02 1.955E 02 1.955E 02 1.955E 02	H(8TU/#) 1.160F 02 1.160E 02 1.166E 02 1.179E 02 1.27E 02 1.27E 02 1.261E 02 1.266E 02 1.266E 02 1.266E 02 1.276E 02 1.276E 02 1.276E 02 1.276E 02 1.276E 02 1.300E 02 1.311E 02	TTTR; 4.855E 02 4.855E 02 4.879E 02 4.921E 02 5.019E 02 5.074E 02 5.174E 02 5.174E 02 5.273E 02 5.273E 02 5.340E 02 5.346E 02 5.486E 02	4000E-01 UADJ(FT/SEC) 9.660E 01 9.660E 01 9.700E 01 9.905E 02 1.092E 02 1.092E 02 1.253E 02 1.359E 02 1.466E 02 1.572E 02 1.674E 02 1.748E 02 1.823E 02 1.823E 02 1.933F 02 1.933F 02 1.958E 02 1.958E 02 1.958E 02 1.958E 02
6.3015E- R(FT) 2.143E-01 1.942E-01 1.768F-01 1.636E-01 1.508E-01 1.3648-01 1.292E-01 1.216F-01 1.216F-01 9.950E-02 9.196E-02 9.196E-02 4.579E-02 2.893E-02 1.255E-02 -3.818E-03 -2.052E-02 -3.722E-02 -3.722E-02 -7.798E-02 -7.798E-02 -1.058E-01 -1.114E-01 -1.171E-01	01 1.8817E PT(PSF) 2.058E 03 2.062E 03 2.062E 03 2.067E 03 2.071E 03 2.074E 03 2.074E 03 2.081E 03 2.081E 03 2.087E 03 2.087E 03 2.087E 03 2.088E 03	01 6.103 TS; R1 4.848E 02 4.848E 02 4.871F 02 4.913E 02 5.004E 02 5.122E 02 5.200E 02 5.233F 02 5.253E 02 5.261F 02 5.315F 02 5.315F 02 5.348E 02 5.454E 02	RHO(#M/FT3) 7-915E-02 7-915E-02 7-915E-02 7-915E-02 7-659E-02 7-577E-02	E 03 2.897 UX(FT/SEC) 9.660E 01 9.660E 01 9.700E 01 9.700E 01 9.700E 02 1.049E 02 1.165E 02 1.253E 02 1.359E 02 1.466E 02 1.572c 02 1.674E 02 1.674E 02 1.748E 02 1.963E 02 1.973E 02 1.973E 02 1.973E 02 1.975E 02 1.976E 02 1.976E 02 1.9770E 02 1.978E 02 1.979E 02	H(8TU/#) 1.160F 02 1.160E 02 1.166E 02 1.179E 02 1.212E 02 1.212E 02 1.227E 02 1.236E 02 1.261E 02 1.255E 02 1.261E 02 1.276E 02 1.276E 02 1.285E 02 1.285E 02 1.310E 02 1.311E 02 1.311E 02 1.311E 02 1.312E 02 1.311E 02 1.312E 02	TTTR; 4.855E 02 4.879E 02 4.879E 02 4.879E 02 5.019E 02 5.074E 02 5.133E 02 5.174E 02 5.251E 02 5.273E 02 5.273E 02 5.340E 02 5.411E 02 5.486E 02	4000E-01 UADJ(FT/SEC) 9.660E 01 9.660E 01 9.700E 01 9.905E 02 1.092E 02 1.092E 02 1.253E 02 1.359E 02 1.466E 02 1.572E 02 1.674E 02 1.748E 02 1.823E 02 1.823E 02 1.933F 02 1.933F 02 1.958E 02 1.958E 02 1.958E 02 1.958E 02
6.3615E- R(FT) 2.143E-01 1.768F-01 1.636E-01 1.508E-01 1.364E-01 1.292E-01 1.216F-01 1.143E-01 1.070E-02 9.196E-02 8.426E-02 7.706E-02 9.969E-02 4.579E-02 2.893E-02 1.255E-02 -3.818E-03 -2.052E-02 -3.72E-02 -5.113E-02 -7.798E-02 -7.798E-02 -7.798E-02 -7.798E-02 -7.798E-02 -7.798E-02 -7.798E-02 -7.798E-02 -1.114E-01	01 1.8817E PT(PSF) 2.058E 03 2.058E 03 2.058E 03 2.058E 03 2.058E 03 2.058E 03 2.059E 03 2.062E 03 2.062E 03 2.067E 03 2.071E 03 2.074E 03 2.074E 03 2.081E 03 2.081E 03 2.087E 03 2.087E 03 2.088E 03 2.089E 03 2.089E 03 2.088E 03	-01 6.103 TS;R1 4.848E 02 4.848E 02 4.871F 02 5.009E 02 5.064E 02 5.12EE 02 5.200E 02 5.233F 02 5.253F 02 5.253F 02 5.253F 02 5.348E 02 5.348E 02 5.454E 02	RHO(#M/FT3) 7-915E-02 7-915E-02 7-915E-02 7-915E-02 7-659E-02 7-659E-02 7-332E-02 7-332E-02 7-332E-02 7-129E-02 7-129E-02 7-05E-02 7-05E-02 7-035E-02	E 03 2.897 UX(FT/SEC) 9.660E 01 9.660E 01 9.700E 01 9.700E 02 1.092E 02 1.165E 02 1.253E 02 1.359E 02 1.466E 02 1.572C 02 1.674E 02 1.748E 02 1.958E 02 1.959E 02	H(8TU/#) 1.160F 02 1.166E 02 1.166E 02 1.176E 02 1.176E 02 1.27E 02 1.227E 02 1.236E 02 1.246E 02 1.255E 02 1.261E 02 1.276E 02 1.276E 02 1.276E 02 1.276E 02 1.285E 02 1.276E 02 1.311E 02 1.312E 02 1.314E 02	TTTR; 4.855E 02 4.855E 02 4.855E 02 4.855E 02 4.921E 02 5.019E 02 5.074E 02 5.174E 02 5.215E 02 5.273E 02 5.273E 02 5.340E 02 5.340E 02 5.416E 02 5.486E 02	4000E-01 UADJ(FT/SEC) 9.660E 01 9.660E 01 9.700E 01 9.905E 02 1.092E 02 1.092E 02 1.253E 02 1.359E 02 1.466E 02 1.572E 02 1.674E 02 1.748E 02 1.823E 02 1.823E 02 1.933F 02 1.933F 02 1.958E 02 1.958E 02 1.958E 02 1.958E 02

2.0665 03

5.192F 02

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7.862E-02
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                                                                    GAM
                                                                                CP(BTU/PK)
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             PT(PSF)
                         TS(A)
                                                                         TT(R)
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1.826F-01 2.058E 03 4.913F 02
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1.176E 02
                                                9.805F 01
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5.206E 02

7.3915-02

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                                                                                                                                              CP(BTU/ER)
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      PT(PSF)
      TS(R)
      RHO(MM/FT3)
      UX(FT/SEC)
      S(ATU/M)

      2.2926-01
      2.058E
      03
      4.899f
      02
      7.832E-02
      9.802E
      01
      1.173E
      02

      2.013E-01
      2.058E
      03
      4.990E
      02
      7.824E-02
      9.724E
      01
      1.173E
      02

      1.800f-01
      2.058E
      03
      4.990E
      02
      7.751E-02
      9.950c
      01
      1.185E
      02

      1.475F-01
      2.061E
      03
      5.118E
      02
      7.497F-03
      1.138E
      02
      1.226E
      02

      1.330F-01
      2.064E
      03
      5.159E
      02
      7.387E-02
      1.257E
      02
      1.246E
      02

      1.040F-01
      2.069E
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      5.280E
      02
      7.27F-02
      1.579E
      02
      1.267E
      02

      8.99IF-02
      2.080E
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      5.325E
      02
      7.200E-02
      1.579E
      02
      1.267E
      02

      7.566E-02
      2.084E
      03
      5.375F
      02
      7.139E-02
      1.828E
      02
      1.291E
      02

      4.701E-02
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                                             TS(R)
                                                              RHOLOM/FT31 UX1FT/SEC1 MIRTU/W1
                                                                                                                                  TTIRL
                                                                                                                                                   UADJ(FT/SEC)
                                                                                                                             4.907E 02
                                                                                                                                                   9.702E 01
                                                                                                                                                   9.423E 01.
                                                                                                                              4,9128 02
                                                                                                                              4.958E 02
                                                                                                                                                   9.852E 01
                                                                                                                              5.1298 02
                                                                                                                                                   1.129E U2
                                                                                                                              5.206£ 02
                                                                                                                                                   1.250E 02
                                                                                                                               3.255E 02
                                                                                                                                                   1.418E 02
                                                                                                                               5.3406 42
                                                                                                                                                   1.5758
                                                                                                                              5.349E 02
5.403E 02
                                                                                                                                                   1.8276 02
                                                                                                                              5.451E 02
                                                                                                                                                   1.911E 02
                                                                                                                               5.499E 02
                                                                                                                                                   1.942E Q2
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5.5076 02 6.9686-02
5.4988 02 6.9795-02
5.4806 02 7.0015-02
5.4386 02 7.0505-02
   2.9038-02
                       2.064F 03
                                                                                     1.9735 02
                                                                                                          1.322E 07
                                                                                                                               5,530E 02
                                                                                                                                                    1.973E 02
   3.374F-03 2.088F 03
                                                                                     1.9658 02
                                                                                                          1.324E 02
                                                                                                                               5.5398 02
                                                                                                                                                   1.963E U2
                       2.088F 03
 -8.16 ZE -U.3_
                                                                                     1.964t 02
1.968F 02
                                                                                                        1.3216 02
                                                                                                                              5.5308 02
 -4.107E-02
                     2.089± 03
2.087± 03
                                                                                                                               5.51ZE 02
                                                                                                          1.307E 02
 -5.744F-02
                                                                                     1.9328 02
                                                                                                                               5.469E 02
 -7.349é-02
                       2.085E 03
                                            5.3836 02
                                                                 7.128E-02
                                                                                     1.8598 02
                                                                                                          1.294E 02
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 -4.675F-02
                       50 3180°2
                                            5.333F 02
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                                                                                                          1.281E 02
                                                                                                                               5.358E 02
 -1-002F-01
                       2.07tE C3
                                            5.292F 02
                                                                 7.251E-02
                                                                                     1.629F 02
                                                                                                          1.27UE 02
                                                                                                                              5.314E 02
                     2.071E 03
2.069E 03
                                                                                    1.487E 02
1.420E 02
                                           5.251E 02
5.234F 02
                                                                7.308E-02
7.330E-02
                                                                                                         1.259E 02
1.255E 02
 -1-141E-01
                                                                                                                              5.269E 02
5.251E 02
 -1.198F-01
                       2.067E 03
                                           5.209F 02 7.366E-02
                                                                                     1.3535 02
                                                                                                         1.246E 02
 -1.25 7E-01
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                                                                                                                          GAM
      X(FT) RS(FT) WJ(#M/SEC) PS(PSF) MW GAM CP(BTU/#R)
1.1129E 00 2.1677F-01 6.0539F-01 2.0462E 03 2.8970E 01 1.4000E 00 2.4000E-01
   P;FT; PT(PSF) TS(R) RHO(#M/FT3) UX(FT/SEC) H(BTU/#)
2.540F-01 2.956E 02 4.932E 02 7.780F-02 9.815E 01 1.181E 02
2.330F-01 2.958E 03 4.927F 02 7.788F-02 9.839E 01 1.179E 02
2.115E-01 2.058E 03 4.936E 02 7.773E-02 9.874E 01 1.181E 02
                                                                                                                                  TTIRE
                                                                                                                                                   UADLIFT/SEC)
                                                                                                                             4.940E 02
                                                                                                                                                   9.715E 01
                                                                                                                               4,935£ 02
                                                                                                                                                   9.7345 01.
                                                                                     9.674E 01 1.181E 02
9.969F 01 1.188E 02
                                                                                                                                                   4.773E
                      2.058E 03 4.936E 02 7.773E-02

2.058E 03 4.954F 02 7.737E-02

2.059F 03 5.024F 02 F.638E-02

2.063E 03 5.175F 02 7.516E-02

2.063E 03 5.175F 02 7.4145-02

2.067E 03 5.236F 02 7.328E-12

2.073E 03 5.236F 02 7.253E-02

2.073E 03 5.330E 02 7.198E-02

2.087E 03 5.438E 02 7.056E-02

2.087E 03 5.438E 02 7.056E-02

2.089E 03 5.438E 02 6.979E-02
    1.937F-01
                                                                                                                               4.968E 02
                                                                                                                                                   9.865E U1
                                                                                    1.025F 02 1.203E 02
1.101E 02 1.223E 02
   1.7596-61
                                                                                                                              5.032E 02
                                                                                                                                                   1-014E 02
                                                                                                                               5.115E 02
                                                                                                                                                   1.089E
   1.5868-01
   1.428F-01 2.063E 03
                                                                                                          1.240E 02
                                                                                                                                                   1.2C7E 02
                                                                                      1.2222 02
                                                                                                                               5.188E 02
                                                                                     1.362t 02 1.255E 02
1.530E 02 1.269E 02
                                                                                                                                                   1.344E Q2
                                                                                                                              _5.251E 02
   1.27.1E-01
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                                                                                                                                                   1-509E 02
                                                                                     1.685E 02 1.279E 02
1.318E 02 1.294E 02
                                                                                                                               5.354E 02
                                                                                                                                                   1-661E
                                                                                                                                                                1)2
   9.5256-02 2.0786 03
                                                                                                                               5.411E 02
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   7-9378-02
                                                                                      1.925E 02
                                                                                                          1.307E UZ
                                                                                                                               5.469£ 02
                                                                                                                                                    1.697E
   6.0701-02
    4.220F-02 2.089E 03
                                                                                      1.9718 02
                                                                                                          1.322E 02
                                                                                                                               5.530E 02
                                                                                                                                                   1.9415 02
                      2.089E 03 5.515E 02 6.950E-02
2.089E 03 5.514E 02 6.958E-02
2.049E 03 5.506F 02 6.969F-02
2.3345.22
                                                                                      1.983: 02
                                                                                                          1.326E 02
                                                                                                                               5.547F 02 _
                                                                                                                                                   1.953E 02
1.956E 02
                                                                                      1.9866 02
                                                                                                                               5.547t UZ
   1.926F-03 2.089E 03
  -1.985E-02 2.0d9E 03
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                       2.0888 03
                                                                                      1.9596 02
                                                                                                                               5.5042 02
  -4.2281-02
                                            5.472E 32 7.012E-02
                                                                                                          1.315E 02
                                                                7.0845-02
7.155E-02
                        2.0865 03
                                             5.416E '2
                                                                                      1.906t 02
                                                                                                          1.3026 02
                                                                                                                               5.447E 02
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                       2.093F 03
                                                                                      1.8065 02
                                                                                                          1.288E 02
                                                                                                                               5.389E 02
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-1.053E-01 2.073E 03 5.285E 02 7.260F-02
                                                                                      1.685E 02 1.278E 02
                                                                                                                               5.345E 02
 -1.053E-01 2.073E 03 5.235E 02 7.320E-02 1.385E 02 1.266E 02 -1.197E-01 2.068E 03 5.235E 02 7.329E-02 1.385E 02 1.255E 02
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1.2527F 00 2.25166-01 6.0512E-01 2.0462E 03 2.8970E 01 1.4000E 00 2.4000E-01
 R(FT) PT(PSF) TS(4) KHO(#M/FT3) UX(FT/SEC) H(BTU/#) TT(R) UADJ(FT/SEC) 2.555F-01 2.056E 03 4.950F 02 7.751E-02 9.825E 01 1.185E 02 4.958E 02 9.725E 01 2.299E-01 2.058E 03 4.955E 02 7.744E-02 9.8045 01 1.186E 02 4.963E 02 9.704E 01 2.053F-01 2.0585 03 4.969E 02 7.722E-02 9.872E 01 1.189E 02 4.977E 02 9.771E 01
                                                                                                                                                         (DECLTA)LOAU
  1.662F-01 2.060E (3 5.092F 02 7.536E-02
                                                                                        1.080E 02 1.219E 02
                                                                                                                                   5.101E 02
                                                                                                                                                         1.069£ 02
 1.480F-01 2.J63E C3 5.171F 02 7.419E-02
1.288F-01 2.J67E J3 5.249E 02 7.309E-02
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                                                                                                                                   5-183E 02
                                                                                                                                                         1.177E 02
                                                                                       1.343E 02 1.258E 02
1.526E 02 1.274E 02
                                                                                                                                                         1.329E 02
                                                                                                                                   5-264E U2
  1.095F-01
                      2.072E 03 5.312F 02 7.223E-02
                                                                                                                                   5.332E U2
                                                                                                                                                         1-511E 02
                                           5.361E 02 7.157C-02
5.419F 32 7.081E-02
                                                                                       1.697C 02 1.287E 02
1.839E 02 1.302E 02
 9.030F-02
                       2.078E_UJ
                                                                                                                                  5.385E 02_
                                                                                                                                                         1-680E . 02
  7.098F-J2 2.084E 03
                                                                                                                                   5.447E UZ
                                                                                                                                                         1.82UE U2
 1.384F-02 2.087F 03 5.468F 02 7.016E-02
1.384F-02 2.089F 03 5.545F 02 6.919E-02
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                                                                                       1.928£ 02 1.314E 02
1.977E 02 1.333E 02
                                                                                                                                   5.578E 02
                                                                                                                                                         1.957E 02
                                            5.537F U2 6.93UF-02
5.528F U2 6.941ê-02
  5.4784-03
                                                                                                              1.331E 02
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-2.283F-02 2.088E U3
                                                                                        1.970E 02
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                                                                                                             1.319E 02
1.300E 02
                                                                                                                                   5.5%1E 02
5.469E 02
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                       2. 288E_03
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5.385F 02 7.125E-02
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     X(FT) RS(FT) WJ(WM/SEC) PS(PSF) MW GAM CP(BTU/WR)
1.5053E 00 2.4032E-01 6.0290E-01 2.0462E 03 2.897UE 01 1.4000E 00 2.4000E-01
 R(FT) PT(PSF) TS(R) RHO(#M/FT3; UX(FT/SEC) H(BTU/#) TT(R) UADJ(FT/SE 2.765E-01 2.058F 03 4.978F 02 7.708E-02 9.953E 01 1.192E 02 4.986E 02 9.338E 01 2.210E-01 2.059F 93 5.010E 02 7.659E-02 1.024E 02 1.199E 02 5.019E 02 9.640E 01 1.787F-01 2.060E 03 5.073E 02 7.563E-02 1.078E 02 1.215E 02 5.083E 02 1.020E 02 1.604E-01 2.060E 03 5.145E 02 7.458E-02 1.156E 02 1.233E 02 5.156E 02 1.102E 02 1.418F-01 2.065E 03 5.201E 02 7.377E-02 1.272E 02 1.246E 02 5.215E 02 1.223E 02 1.228F-01 2.069E 03 5.274E 02 7.274E-02 1.424E 02 1.264E 02 5.215E 02 1.381E 02 1.034E-01 2.074E 03 5.320F 02 7.212E-02 1.562E 02 1.277E 02 5.340E 02 1.524E 02 1.562E 02 1.277E 02 5.340E 02 1.582E 02
                                            5.423E 02
 6.511F-02
                       2.084E 03
                                                                  7.075E-02
                                                                                        1.838E 02 1.303E 02
                                                                                                                                   5.451E 02
                                                                                                                                                         1.812E 02
4-611E-02 2.086E 03 5.482E 02 6.999E-02 1.917E 02 1.318E 02 5.512E 02 2.974E-02 2.088E 03 5.516E 02 6.956F-02 1.953E 02 1.326E 02 5.547E 02 1.304E-02 2.088E 03 5.537E 02 6.930E-02 1.973E 02 1.331E 02 5.569E 02 -3.165E-03 2.088E 03 5.532E 02 6.935E-0 1.969E 02 1.330E 02 5.565E 02 -2.003E-02 2.088E 03 5.503E 02 6.935E-0 1.953E 02 1.323F 02 5.534E 02 -2.03E-02 2.088E 03 5.503E 02 6.973E-02 1.973E 02 1.317E 02 5.504E 02 -2.03E-02 2.088E 03 5.503E 02 6.973E-02 1.973E 02 1.317E 02 5.504E 02
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                                                                                       1.810t 02
                                                                                                              1.299E 02
                       2.083E 03
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5.374E 02 7.140E-02 1.718E 02 1.290E 02

5.320E 02 7.213E-02 1.586E 02 1.276E 02
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-1.232F-01 2.068E 03
     X(FT) PS(FT) HJ(#M/SEC) PS(PSF) NW GAM CP(BTU/#R)
1.7733E 00 2.5649E-01 6.0335E-01 2.0462E 03 2.8970E 01 1.4000E 00 2.4000E-01
 R(FT) PT(PSF) TS(R) RHO(#M/FT3) UX(FT/SEC) H(BTU/#) TT(R) UADJ(FT/SI
3.138E-01 2.057E 03 5.011E 02 7.657E-02 9.495E 01 1.199E 02 5.019E 02 9.189E 01
2.376E-01 2.059E 03 5.010E 02 7.659E-02 1.016E 02 1.199E 02 5.019E 02 9.257E 01
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 2.130F-01 2.059E 03 5.028E 02 7.631E-02 1.033E 02 1.204E 02 5.037E 02 1.004E 02 1.882E-01 2.060E 03 5.073E 02 7.563E-02 1.069E 02 1.714E 02 5.083E 02 1.039E 02 1.660E-01 2.061E 03 5.141E 02 7.464E-02 1.142E 02 1.231E 07 5.151E 02 1.113E 02 1.521E-01 2.063E 03 5.189E 02 7.394E-02 1.220E 02 1.243E 02 5.201E 02 1.197E 02 1.383E-01 2.066E 03 5.241E 02 7.321E-02 1.319E 02 1.256E 02 5.255E 02 1.292E 02 1.263E 03 5.241E 02 7.321E-02 1.319E 02 1.256E 02 5.255E 02 1.292E 02
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 1.096E-01 2.071E 03
9.550E-02 2.075E 03
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  8.207E-02
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  5.391F-02
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                                                                  6.972E-02
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1.950E 02 1.326E 02
  2.625E-02
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                                                                                                                                    5.534E 02
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                       2.088E 03
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7.042E-02
-1.436F-0?
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7.086F-02 1.812E 02 1.301E 02
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-5.512F-02 2.083E 03 5.415F C2
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-8.148f-02 2.077f 02 5.358f 02 7.161f-02 1.556f 02 1.286f 02 -1.093f-01 2.071f 03 5.291f 02 7.252f-02 1.489f 02 1.269f 02
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GAM
               X(FT) RS(FT) WJ(#M/SEC) PS(PSF) MW GAM CP(BTU/#R)
3.1969F-03 1.5019E-01 6.1258E-01 2.0333E 03 2.8970E 01 1.4000E 00 2.4000E-01
RHO(#M/FT3) UX(FT/SEC) H(BTU/#)
                                                                                                                                                                                                                                                                                                                                                   UADJ(FT/SEC)
   -1.154F-01 2.063E 03 5.216F 02 7.310E-02 1.614E 02 1.251E 02 5.237E 02 -1.298F-01 2.042E 03 4.873E 02 7.825F-02 8.647E 01 1.166E 02 4.879E 02 -1.303F-01 2.044E 03 4.820F 02 7.910E-02 9.347E 01 1.153E 02 4.827E 02
X(FT)
                                                                                                                                                                                                                                                          GAM
                 X(FT) PS(FT) WJ(#M/SEC) PS(PSF) MW GAM CP(BTU/#R)
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 8.7914F-02 1.5527F-01 6.1303F-01 2.0333E 03 2.8970E 01 1.4000E 00 2.4000E-01

R(FT) PT(PSF) TS(R) RHO(8M/FT3) UX(FT/SEC) H(8TU/#) TT(R) UADJ(FT/SEC)
1.748F-01 2.045E 03 4.825E 02 7.850E-02 9.757F 01 1.156E 02 4.836E 02 9.857E 01
1.520F-01 2.045E 03 4.829E 02 7.880E-02 9.757E 01 1.150E 02 4.836E 02 9.857E 01
1.520F-01 2.045E 03 4.829E 02 7.880E-02 9.757E 01 1.150E 02 4.869E 02 9.805E 01
1.456F-01 2.045E 03 4.838E 02 7.880E-02 9.757E 01 1.150E 02 4.869E 02 9.805E 01
1.388F-01 2.044E 03 4.932F 02 7.730E-02 9.593E 01 1.163E 02 4.869E 02 9.803E 01
1.387F-01 2.045E 03 4.960E 02 7.687E-02 9.593E 01 1.163E 02 4.869E 02 9.803E 01
1.367F-01 2.045E 03 4.960E 02 7.687E-02 9.504E 01 1.188E 02 4.968E 02 9.824E 01
1.367F-01 2.045E 03 4.960E 02 7.687E-02 9.26E 01 1.196E 02 5.005E 02 1.003E 02
1.326F-01 2.045E 03 5.024E 02 7.530E-02 1.030E 02 1.203E 02 5.032E 02 1.003E 02
1.330F-01 2.047E 03 5.024E 02 7.530E-02 1.030E 02 1.211E 02 5.005E 02 1.003E 02
1.231E-01 2.049E 03 5.059E 02 7.490E-02 1.085E 02 1.211E 02 5.069E 02 1.055E 02
1.253F-01 2.052E 03 5.111E 02 7.460E-02 1.278E 02 1.211E 02 5.101E 02 1.170E 02
1.253F-01 2.055E 03 5.136E 02 7.429E-02 1.160E 02 1.213E 02 5.151E 02 1.375E 02
1.213E-01 2.057E 03 5.136E 02 7.429E-02 1.160E 02 1.234E 02 5.151E 02 1.375E 02
1.213E-01 2.057E 03 5.136E 02 7.429E-02 1.565E 02 1.234E 02 5.151E 02 1.452E 02
1.191E-01 2.060E 03 5.249E 02 7.329E-02 1.521E 02 1.246E 02 5.388E 02 1.452E 02
1.191E-01 2.060E 03 5.249E 02 7.229E-02 1.787E 02 1.260E 02 5.318E 02 1.531E 02
1.098F-01 2.069E 03 5.274E 02 7.229E-02 1.57E 02 1.267E 02 5.318E 02 1.797E 02
2.075E 03 5.288E 02 7.220E-02 1.944E 02 1.271E 02 5.318E 02 1.955E 02
1.031E-02 2.075E 03 5.288E 02 7.210E-02 1.944E 02 1.271E 02 5.318E 02 1.955E 02
1.541E-02 2.076E 03 5.287E 02 7.212E-02 1.944E 02 1.271E 02 5.318E 02 1.955E 02
1.541E-02 2.076E 03 5.287E 02 7.212E-02 1.944E 02 1.271E 02 5.318E 02 1.955E 02
1.541E-02 2.076E 03 5.287E 02 7.212E-02 1.944E 02 1.271E 02 5.318E 02 1.955E 02
1.540E-02 2.076E 03 5.287E 02 7.212E-02 1.944E 02 1.271E 02 5.318E 02
                                                                                                                                                                                                                                                                                                                                                   UADJ(FT/SEC)
   -6.5985-02 2.076E 03 5.282E 02 7.218E-02 1.943E 02 1.270E 02 5.314E 02
-8.034E-02 2.075E 03 5.278E 02 7.223E-02 1.923E 02 1.269E 02 5.309E 02
-9.501E-02 2.072E 03 5.272E 02 7.231E-02 1.840E 02 1.266E 02 5.300E 02
-1.032E-01 2.068E 03 5.252E 02 7.259E-02 1.762E 02 1.261E 02 5.278E 02
-1.116E-01 2.064E 03 5.202F 02 7.329E-02 1.629E 02 1.249E 02 5.224E 02
-1.197E-01 2.055E 03 5.127E 02 7.437E-02 1.379E 02 1.229E 02 5.424E 02
       -1.276E-01
                                                                                                                                                       7.570E-02
                                                        2.047E 03
                                                                                                        5.037E 02
                                                                                                                                                                                                      1.076E 02
                                                                                                                                                                                                                                                     1.206E 02
                                                                                                                                                                                                                                                                                                     5.046E
   -1.314F-01 2.045E 03 4.978E 02 7.659E-02 9.999E 01 1.192E 02 4.986E 02
```

X(FT)	RS(FT						(BTU/#R)
2.50746	-01 1.65046	E-01 6.121	2E-01 2.033	3E 03 2.89	70E 01 1.	4000E 00 2.	4000E-01
R(FT)	PT(PSF)	TS(R)	000/48/6731	UX(FT/SEC)	H(8T5/#)	TT(R)	UADJ(FT/SEC)
1.9368-01	2.045E 03	4.847E 02		9.867E 01			9.8678 01
_1.761E-01	2.045E 03				_1.163E_02		9.849E 01
1.625E-01	2.045E 03	4.852E 02	7.8585-02	9.818E 01	1.161E 02		9.818E 01
1.4895-01	2.045E 03	4.927E 02		1.003E 02	1.1798 02		1.004E 02
1.430F-01	2.046F 03	4.977E 02		1.034E 02	1.192E 02		1.035E 02
1.3695-01	2.047E 03	5.036E 02		1.087E 02	1.206E 02		1.088E 02
1.312F-01	2.0498 03	5.0908 02		1.178E 02 1.305E 02	1.219E 02		1.180E 02
1.253E-01	<u>2.053E 03</u> 2.057E 03	<u>5.133E_02</u> 5.157E_02		1.441E 02	1.236E 02		1.446E 02
1.139F-01	2.062E 03	5.181E 02		1.568E 02	1.243E 02		1.574E 02
1.058E-01	2.067E 03	5.222E 02		1.710E 02	1.254E 02		1.717E 02
9.7305-02	2.0705 03	5.256E 02		1.798E 02	1.263E 02		1.806E 02
8.717E-02	2.073E 03	5.298E 02		1.876E 02	1.273E 02		1.886E 02
		5.305F 02		_1.923E_02			1.933E 02
6.161E-02 4.648E-02		5.313E 02 5.309E 02		1.955E 02 1.949E 02	1.278E 02 1.276E 02		1.965E 02 1.959E 02
2.5466-02		5.309E 02		1.9488 02	1.276E 02		1.958E 02
4.1375-03		5.309E 02		1.949E 02	1.276E 02		1.959E 92
-3.867E-02	2.U76E 03	5.304E 02	7.188E-02	1.954E 02	1.275E 02	5.336E 02	
5-438E-02		5.300E_02		_1.961E_Q2	_1.274E_02		
-6.889E-02 -8.341F-02		5.304E 02		1.947E 02	1.275E 02		
-9.283F-02		5.292E 02 5.272E 02		1.905E 02 1.851E 02	1.272E 02 1.267E 02		
-1.0245-01		5.226E 02		1.749E 02	1.255E 02		
-1-1230-01		5.176E 02		1.568E 02	1.242E 02		•
-1.219E-01	2.054E 03			1.337E 02	1.230E 02		
-1.317F-01	2.048E 03	5.058E 02	7.537E-02	1.1365 02	1.211E 02	5.069E 02	
X(FT)	RS(FT)	/M#) UW	SEC) PS(P	SF) MI	H	AM CP	(BTU/#R)
X(FT) 5.0439E-						OOOE 00 2.4	
5.0439E-	01 1.80265	-01 6.1146	E-01 2.033	3E 03 2.89	70E 01 1.4	000E 00 2.4	1000E-01
5.0439E- R(FT)	01 1.8026E PT(PSF)	-01 6.1146 TS(R)	E-01 2.033 RHO(#M/FT3)	3E 03 2.89	70E 01 1.4 H(BTU/#)	1000E 00 2.4	000E-01 UADJ(FT/SEC)
5.0439E-	01 1.80265	-01 6.1146 TS(R) 4.876F 02	E-01 2.033	3E 03 2.89	70E 01 1.4	000E 00 2.4	1000E-01
5.0439E- R(FT) 2.281F-01	01 1.80265 PT(PSF) 2.045E 03	-01 6.1146 TS(R) 4.876F 02	RHO(#M/FT3) 7.820E-02	3E 03 2.89 UX(FT/SEC) 9.796E 01	70E 01 1.4 H(BTU/#) 1.167E 02	TT(R) 4.883E 02	UADJ(FT/SEC) 9-796E 01 9-796E 01 9-838E 01
5.0435E- R(FT) 2.281F-01 2.098E-01 1.909E-01 1.757F-01	01 1.80265 PT(PSF) 2.045E 03 2.045E 03 2.045E 03 2.045E 03	-01 6.1146 TS(R) 4.876E 02 4.876E 02 4.980F 02 4.880E 02	RHO(#M/FT3) 7.820E-02 7.820E-02 7.812E-02 7.812F-02	3E 03 2.89 UX(FT/SEC) 9.796E 01 9.796E 01 9.838E 01 9.829E 01	H(BTU/#) 1-167E 02 1-167E 02 1-168E 02 1-168E 02	TT(R) 4.883E 02 4.888E 02 4.888E 02 4.888E 02	UADJ(FT/SEC) 9-796E 01 9-796E 01 9-838E 01 9-829E 01
5.0439E- R(FT) 2.281F-01 2.098E-01 1.909E-01 1.797F-01 1.691F-01	01 1.80265 PT(PSF) 2.0455 03 2.0455 03 2.0456 03 2.0456 03 2.0456 03	TS(R) 4.876E 02 4.876E 02 4.980F 02 4.880E 02 4.903F 02	E-01 2.033 RH7(#M/FT3) 7.820E-02 7.820E-02 7.812E-02 7.812E-02 7.775E-02	UX(FT/SEC) 9.796E 01 9.796E 01 9.838E 01 9.829E 01 9.904E 01	H(BTU/#) 1-167E 02 1-167E 02 1-168E 02 1-168E 02 1-174E 02	TT(R) 4.883E 02 4.883E 02 4.888E 02 4.888E 02 4.898E 02 4.912E 02	UADJ(FT/SEC) 9.796E 01 9.796E 01 9.838E 01 9.829E 01 9.904E 01
5.0439E- R(FT) 2.281F-01 2.098E-01 1.909E-01 1.797E-01 1.691E-01 1.628E-01	01 1.80265 PT(PSF) 2.0455 03 2.0455 03 2.0456 03 2.0456 03 2.0456 03 2.0456 03	-01 6.1146 TS(R) 4.876F 02 4.876E 02 4.980F 02 4.980F 02 4.903F 02 4.931F 02	RHO(#M/FT3) 7.820E-02 7.820E-02 7.812E-02 7.812F-02 7.775E-02 7.732E-02	UX(FT/SEC) 9.796E 01 9.796E 01 9.838E 01 9.829E 01 9.904E 01 1.006E 02	70E 01 1.4 H(BTU/#) 1.167E 02 1.168E 02 1.168E 02 1.174E 02 1.181E 02	TT(R) 4.883E 02 4.888E 02 4.888E 02 4.888E 02 4.912E 02 4.912E 02 4.940E 02	UADJ(FT/SEC) 9.796E 01 9.796E 01 9.838E 01 9.829E 01 9.906E 01
8(FT) 2.281F-01 2.098E-01 1.909E-01 1.757E-01 1.691E-01 1.628E-01 1.563E-C1	01 1.80265 PT(PSF) 2.045E 03 2.045E 03 2.045E 03 2.045E 03 2.045E 03 2.045E 03	-01 6.1146 TS(R) 4.876E 02 4.880E 02 4.880E 02 4.903F 02 4.903F 02 4.968E 02	E-01 2.033 RH7(#M/FT3) 7.820E-02 7.820E-02 7.812E-02 7.775E-02 7.732E-02 7.674E-02	3E 03 2.89 UX(FT/SEC) 9.796E 01 9.796E 01 9.838E 01 9.829E 01 9.904E 01 1.006E 02 1.030E 02	70E 01 1.4 H(BTU/#) 1.167E 02 1.167E 02 1.168E 02 1.174E 02 1.181E 02 1.189E 02	TT(R) 4.883E 02 4.883E 02 4.888E 02 4.888E 02 4.912E 02 4.977E 02	UADJ(FT/SEC) 9-796E 01 9-796E 01 9-838E 01 9-838E 01 9-904E 01 1-006E 02 1-030E 02
8(FT) 2.281F-01 2.098E-01 1.909E-01 1.797F-01 1.691E-01 1.698E-01 1.563E-01	01 1.80265 PT(PSF) 2.0455 03 2.0455 03 2.0456 03 2.0456 03 2.0456 03 2.0456 03	-01 6.1146 TS(R) 4.876F 02 4.876E 02 4.980F 02 4.980F 02 4.903F 02 4.931F 02	RHO(#M/FT3) 7.820E-02 7.820E-02 7.812E-02 7.812F-02 7.775E-02 7.732E-02	3E 03 2.89 UX(FT/SEC) 9.796E 01 9.796E 01 9.838E 01 9.829E 01 9.904E 01 1.006E 02 1.030E 02 1.074E 02	H(BTU/#) 1-167E 02 1-167E 02 1-168E 02 1-168E 02 1-174E 02 1-181E 02 1-189E 02 1-201E 02	TT(R) 4.883E 02 4.888E 02 4.888E 02 4.888E 02 4.912E 02 4.912E 02 4.940E 02	UADJ(FT/SEC) 9.796E 01 9.796E 01 9.838E 01 9.829E 01 9.906E 01
8(FT) 2.281F-01 2.098E-01 1.909E-01 1.757E-01 1.691E-01 1.628E-01 1.563E-C1	01 1.80265 PT(PSF) 2.045E 03 2.045E 03 2.045E 03 2.045E 03 2.045E 03 2.046E 03 2.046E 03 2.046E 03	-01 6.1146 TS(R) 4.876E 02 4.880E 02 4.980F 02 4.903F 02 4.931F 02 4.968E 02 5.018E 02 5.018E 02 5.103E 02	E-01 2.033 RHO(#M/FT3) 7.820E-02 7.820E-02 7.812E-02 7.812E-02 7.775E-02 7.732E-02 7.674E-02 7.598E-02	3E 03 2.89 UX(FT/SEC) 9.796E 01 9.796E 01 9.838E 01 9.829E 01 9.904E 01 1.006E 02 1.030E 02	70E 01 1.4 H(BTU/#) 1.167E 02 1.167E 02 1.168E 02 1.174E 02 1.181E 02 1.189E 02 1.201E 02 1.223E 02	TT(R) 4.883E 02 4.888E 02 4.888E 02 4.912E 02 4.977E 02 5.028E 02 5.074E 02 5.115E 02	UADJ(FT/SEC) 9.796E 01 9.796E 01 9.838E 01 9.829E 01 9.904E 01 1.006E 02 1.030E 02 1.074E 02 1.129E 02 1.206E 02
8(FT) 2.281F-01 2.098E-01 1.909E-01 1.757E-01 1.691E-01 1.628E-01 1.563E-C1 1.495E-01 1.360F-01 1.292E-01	01 1.80265 PT(PSF) 2.045E 03 2.045E 03 2.045E 03 2.045E 03 2.045E 03 2.045E 03 2.046E 03 2.046E 03 2.046E 03 2.048E 03 2.053E 03	-01 6.1146 TS(R) 4.876E 02 4.880E 02 4.980F 02 4.903F 02 4.931F 02 4.968E 02 5.003E 02 5.003E 02 5.103E 02 5.103E 02 5.133F 02	E-01 2.033 RHO(#M/FT3) 7.820E-02 7.820E-02 7.812E-02 7.775E-02 7.775E-02 7.674E-02 7.530F-02 7.471E-02 7.429E-02	3E 03 2.89 UX(FT/SEC) 9.796E 01 9.796E 01 9.838E 01 9.829E 01 1.030E 02 1.030E 02 1.030E 02 1.129E 02 1.206E 02 1.206E 02	70E 01 1.4 H(BTU/#) 1.167E 02 1.167E 02 1.168E 02 1.174E 02 1.181E 02 1.189E 02 1.201E 02 1.213E 02 1.223E 02 1.230E 02	TT(R) 4.883E 02 4.888E 02 4.888E 02 4.912E 02 4.977E 02 5.028E 02 5.147E 02 5.147E 02	UADJ(FT/SEC) 9.796E 01 9.796E 01 9.838E 01 9.829E 01 9.904E 01 1.030E 02 1.030E 02 1.129E 02 1.206C 02 1.300E 02
8(FT) 2.281F-01 2.098E-01 1.909E-01 1.757E-01 1.691E-01 1.628E-01 1.563E-C1 1.425E-01 1.424E-01 1.360F-01 1.224F-01	01 1.80265 PT(PSF) 2.045E 03 2.045E 03 2.045E 03 2.045E 03 2.045E 03 2.046E 03 2.046E 03 2.046E 03 2.046E 03 2.056E 03 2.056E 03	-01 6.1146 TS(R) 4.876E 02 4.880E 02 4.880E 02 4.903F 02 4.968E 02 5.063E 02 5.103E 02 5.133F 02 5.162E 02	E-01 2.033 RHO(#M/FT3) 7.820E-02 7.820E-02 7.812E-02 7.775E-02 7.732E-02 7.674E-02 7.530F-02 7.471E-02 7.426E-02 7.386E-02	3E 03 2.89 UX(FT/SEC) 9.796E 01 9.796E 01 9.838E 01 9.829E 01 9.904E 01 1.006E 02 1.074E 02 1.129E 02 1.206E 02 1.300E 02	H(BTU/#) 1-167E 02 1-167E 02 1-168E 02 1-168E 02 1-174E 02 1-189E 02 1-201E 02 1-213E 02 1-223E 02 1-238E 02	TT(R) 4.883E 02 4.883E 02 4.888E 02 4.888E 02 4.912E 02 4.977E 02 5.028E 02 5.115E 02 5.117E 02 5.117E 02 5.179E 02	VADJ(FT/SEC) 9-796E 01 9-796E 01 9-838E 01 9-838E 01 9-829E 01 1-036E 02 1-030E 02 1-129E 02 1-306E 02 1-306E 02 1-306E 02
5.0439E- R(FT) 2.281F-01 2.098E-01 1.909E-01 1.797F-01 1.691F-01 1.563E-C1 1.495E-01 1.424F-01 1.360F-01 1.297F-01 1.294F-01 1.254F-01	01 1.80265 PT(PSF) 2.045E 03 2.045E 03 2.045E 03 2.045E 03 2.045E 03 2.046E 03 2.046E 03 2.046E 03 2.046E 03 2.050E 03 2.050E 03 2.050E 03 2.050E 03 2.050E 03	-01 6.1146 TS(R) 4.876E 02 4.880E 02 4.880E 02 4.903F 02 4.903F 02 4.908E 02 5.018E 02 5.063E 02 5.103E 02 5.162E 02 5.162E 02 5.162E 02	E-01 2.033 RHO(#M/FT3) 7.820E-02 7.812E-02 7.812E-02 7.775E-02 7.732E-02 7.530F-02 7.471E-02 7.428E-02 7.357E-02 7.357E-02	3E 03 2.89 UX(FT/SEC) 9.796E 01 9.796E 01 9.838E 01 9.829E 01 9.804E 01 1.006E 02 1.006E 02 1.074E 02 1.129E 02 1.206E 02 1.300E 02 1.300E 02 1.410F 02 1.509E 02	M(BTU/#) 1-167E 02 1-167E 02 1-168E 02 1-174E 02 1-181E 02 1-189E 02 1-201E 02 1-223E 02 1-230E 02 1-238E 02 1-243E 02	TT(R) 4.883E 02 4.888E 02 4.888E 02 4.912E 02 4.977E 02 5.074E 02 5.115E 02 5.117E 02 5.117E 02 5.117E 02 5.117E 02 5.117E 02 5.117E 02	UADJ(FT/SEC) 9-796E 01 9-796E 01 9-838E 01 9-838E 01 9-904E 01 1.036E 02 1.036E 02 1.074E 02 1.129E 02 1.29E 02 1.300E 02 1.410E 02 1.410E 02
5.0439E- R(FT) 2.281F-01 2.098E-01 1.909E-01 1.797F-01 1.628F-01 1.563E-C1 1.495E-01 1.494F-01 1.360F-01 1.292F-01 1.258E-01 1.158E-01	01 1.80265 PT(PSF) 2.045E 03 2.045E 03 2.045E 03 2.045E 03 2.045E 03 2.046E 03 2.046E 03 2.046E 03 2.050E 03 2.053E 03 2.056E 03 2.056E 03 2.056E 03	-01 6.1146 TS(R) 4.876E 02 4.880E 02 4.980F 02 4.903F 02 4.903F 02 4.968E 02 5.018E 02 5.103E 02 5.103E 02 5.162E 02 5.162E 02 5.121E 02	E-01 2.033 RHO(#M/FT3) 7.820E-02 7.812E-02 7.812E-02 7.775E-02 7.775E-02 7.7598E-02 7.530E-02 7.471E-02 7.48E-02 7.357E-02 7.316E-02 7.316E-02	3E 03 2.89 UX(FT/SEC) 9.796E 01 9.796E 01 9.838E 01 9.828E 01 1.006E 02 1.030E 02 1.0749E 02 1.1206E 02 1.300E 02 1.410E 02 1.509E 02 1.509E 02 1.614E 02	70E 01 1.4 H(BTU/#) 1.167E 02 1.168E 02 1.168E 02 1.181E 02 1.181E 02 1.201E 02 1.213E 02 1.223E 02 1.238E 02 1.238E 02 1.238E 02 1.248E 02 1.251E 02	TT(R) 4.883E 02 4.888E 02 4.888E 02 4.912E 02 4.977E 02 5.028E 02 5.074E 02 5.115E 02 5.179E 02 5.179E 02 5.201E 02 5.233E 02	UADJ(FT/SEC) 9-796E 01 9-796E 01 9-838E 01 9-829E 01 9-904E 02 1-006E 02 1-074E 02 1-129E 02 1-206E 02 1-300E 02 1-400E 02 1-509E 02 1-509E 02
5.0435E- R(FT) 2.281F-01 2.098E-01 1.909E-01 1.757F-01 1.691F-01 1.563E-C1 1.495E-01 1.424F-01 1.360F-01 1.297F-01 1.244F-01 1.244F-01	01 1.80265 PT(PSF) 2.045E 03 2.045E 03 2.045E 03 2.045E 03 2.045E 03 2.046E 03 2.046E 03 2.046E 03 2.046E 03 2.050E 03 2.050E 03 2.050E 03 2.050E 03 2.050E 03	-01 6.1146 TS(R) 4.876E 02 4.880E 02 4.880E 02 4.903F 02 4.903F 02 4.908E 02 5.018E 02 5.063E 02 5.103E 02 5.162E 02 5.162E 02 5.162E 02	E-01 2.033 RHO(#M/FT3) 7.820E-02 7.812E-02 7.812E-02 7.775E-02 7.732E-02 7.530F-02 7.471E-02 7.428E-02 7.357E-02 7.357E-02	3E 03 2.89 UX(FT/SEC) 9.796E 01 9.796E 01 9.838E 01 9.829E 01 9.804E 01 1.006E 02 1.006E 02 1.074E 02 1.129E 02 1.206E 02 1.300E 02 1.300E 02 1.410F 02 1.509E 02	M(BTU/#) 1-167E 02 1-167E 02 1-168E 02 1-174E 02 1-181E 02 1-189E 02 1-201E 02 1-223E 02 1-230E 02 1-238E 02 1-243E 02	TT(R) 4.883E 02 4.888E 02 4.888E 02 4.912E 02 4.977E 02 5.074E 02 5.115E 02 5.117E 02 5.117E 02 5.117E 02 5.117E 02 5.117E 02 5.117E 02	UADJ(FT/SEC) 9-796E 01 9-796E 01 9-838E 01 9-838E 01 9-904E 01 1.036E 02 1.036E 02 1.074E 02 1.129E 02 1.29E 02 1.300E 02 1.410E 02 1.410E 02
5.0435E- R(FT) 2.281F-01 2.098E-01 1.909E-01 1.757F-01 1.691F-01 1.563E-C1 1.495E-01 1.360F-01 1.292F-01 1.292F-01 1.360F-01 1.78E-01 1.089E-01 2.003F-01 2.110F-02 7.794E-02	01 1.80265 PT(PSF) 2.045E 03 2.045E 03 2.045E 03 2.045E 03 2.045E 03 2.046E 03 2.046E 03 2.046E 03 2.050E 03 2.050E 03 2.056E 03 2.059E 03 2.059E 03 2.057E 03 2.074E 03	-01 6.1146 TS(R) 4.876E 02 4.880E 02 4.880E 02 4.903F 02 4.931F 02 4.968E 02 5.018E 02 5.063E 02 5.103E 02 5.162E 02 5.162E 02 5.162E 02 5.240E 02 5.240E 02 5.273E 02 5.273E 02 5.315E 02	E-01 2.033 RHO(#M/FT3) 7.820E-02 7.812E-02 7.812E-02 7.775E-02 7.732E-02 7.530E-02 7.530E-02 7.471E-02 7.326E-02 7.357E-02 7.316E-02 7.270E-02 7.213E-02 7.173E-02	3E 03 2.89 UX(FT/SEC) 9.796E 01 9.796E 01 9.838E 01 9.829E 01 9.804E 01 1.006E 02 1.006E 02 1.129E 02 1.129E 02 1.300E 02 1.300E 02 1.509E 02 1.510F 02 1.510F 02 1.725E 02 1.725E 02 1.816F 02 1.725E 02	M(BTU/#) 1-167E 02 1-167E 02 1-168E 02 1-174E 02 1-181E 02 1-181E 02 1-201E 02 1-233E 02 1-238E 02 1-243E 02 1-258E 02 1-257E 02	TT(R) 4.883E 02 4.888E 02 4.888E 02 4.9912E 02 4.977E 02 5.074E 02 5.115E 02 5.117E 02 5.117E 02 5.126E 02 5.201E 02 5.204E 02 5.306E 02 5.346E 02 5.346E 02	UADJ(FT/SEC) 9-796E 01 9-796E 01 9-838E 01 9-829E 01 9-904E 01 1.036E 02 1.036E 02 1.074E 02 1.129E 02 1.206E 02 1.300E 02 1.400E 02 1.509E 02 1.410E 02 1.509E 02 1.614E 02 1.725E 02 1.817E 02 1.903E 02
5.0439E- R(FT) 2.281F-01 2.098E-01 1.909E-01 1.797F-01 1.628F-01 1.563E-C1 1.495E-01 1.360F-01 1.292r-01 1.224F-01 1.158E-01 1.089E-01 1.003F-01 2.110F-02 7.794E-02 6.297F-02	01 1.80265 PT(PSF) 2.045E 03 2.045E 03 2.045E 03 2.045E 03 2.045E 03 2.046E 03 2.046E 03 2.053E 03 2.053E 03 2.056E 03 2.056E 03 2.056E 03 2.056E 03 2.056E 03 2.076E 03 2.076E 03 2.076E 03	-01 6.1146 TS(R) 4.876E 02 4.880E 02 4.980F 02 4.903F 02 4.903F 02 4.968E 02 5.018E 02 5.103E 02 5.103E 02 5.162E 02 5.182E 02 5.240E 02 5.240E 02 5.273E 02 5.315E 02 5.340E 02	E-01 2.033 RHO(#M/FT3) 7.820E-02 7.812E-02 7.812F-02 7.775E-02 7.775E-02 7.732E-02 7.530E-02 7.471E-02 7.357E-02 7.316E-02 7.276E-02 7.276E-02 7.21E-02 7.173E-02 7.173E-02 7.173E-02 7.176E-02	3E 03 2.89 UX(FT/SEC) 9.796E 01 9.796E 01 9.838E 01 9.838E 01 1.006E 02 1.030E 02 1.0749E 02 1.129E 02 1.129E 02 1.300E 02 1.410E 02 1.509E 02 1.614F 02 1.725E 02 1.817E 02 1.903E 02	M(BTU/#) 1-167E 02 1-168E 02 1-168E 02 1-168E 02 1-181E 02 1-181E 02 1-201E 02 1-213E 02 1-223E 02 1-223E 02 1-238E 02 1-248E 02 1-258E 02 1-258E 02 1-277E 02 1-284E 02	TT(R) 4.883E 02 4.888E 02 4.888E 02 4.912E 02 4.977E 02 5.028E 02 5.074E 02 5.115E 02 5.147E 02 5.179E 02 5.201E 02 5.201E 02 5.201E 02 5.201E 02 5.201E 02 5.300E 02 5.300E 02 5.300E 02 5.300E 02	UADJ(FT/SEC) 9-796E 01 9-796E 01 9-838E 01 9-829E 01 9-904E 02 1-030E 02 1-074E 02 1-129E 02 1-206E 02 1-300E 02 1-400E 02 1-509E 02 1-509E 02 1-614E 02 1-725E 02 1-908E 02 1-908E 02
8(FT) 2.281F-01 2.098E-01 1.909E-01 1.797E-01 1.691E-01 1.563E-C1 1.495E-01 1.360F-01 1.360F-01 1.224F-01 1.158E-01 1.089E-01 1.003F-01 2.110F-02 7.794E-02 4.815F-02	01 1.80265 PT(PSF) 2.045E 03 2.045E 03 2.045E 03 2.045E 03 2.045E 03 2.046E 03 2.046E 03 2.050E 03 2.076E 03 2.076E 03 2.076E 03 2.076E 03 2.076E 03	-01 6-1146 TS(R) 4-876E 02 4-880F 02 4-980F 02 4-931F 02 4-968E 02 5-063F 02 5-063F 02 5-162E 02 5-162E 02 5-162E 02 5-240E 02 5-240E 02 5-315E 02 5-315E 02 5-349E 02 5-349E 02	E-01 2.033 RHO(#M/FT3) 7.820E-02 7.820E-02 7.812E-02 7.812E-02 7.775E-02 7.775E-02 7.530F-02 7.471E-02 7.357E-02 7.357E-02 7.316E-02 7.276E-02 7.276E-02 7.316E-02 7.173E-02 7.173E-02 7.173E-02 7.173E-02 7.173E-02	3E 03 2.89 UX(FT/SEC) 9.796E 01 9.796E 01 9.838E 01 9.804E 01 1.006E 02 1.030E 02 1.129E 02 1.129E 02 1.300S 02 1.410E 02 1.509E 02 1.614E 02 1.725E 02 1.817E 02 1.950E 02 1.959E 02	70E 01 1.4 H(BTU/#) 1.167E 02 1.167E 02 1.168E 02 1.168E 02 1.174E 02 1.181E 02 1.201E 02 1.213E 02 1.223E 02 1.223E 02 1.223E 02 1.223E 02 1.2259E 02 1.259E 02 1.259E 02 1.259E 02 1.259E 02 1.259E 02 1.259E 02 1.267E 02 1.266E 02	TT(R) 4.883E 02 4.888E 02 4.888E 02 4.912E 02 4.912E 02 4.977E 02 5.074E 02 5.115E 02 5.147E 02 5.147E 02 5.179E 02 5.201E 02 5.201E 02 5.201E 02 5.335E 02 5.345E 02	VADJ(FT/SEC) 9.796E 01 9.796E 01 9.838E 01 9.829E 01 9.904E 02 1.030E 02 1.074E 02 1.129E 02 1.206E 02 1.300E 02 1.410E 02 1.509E 02 1.614E 02 1.725E 02 1.817E 02 1.950E 02 1.950E 02
5.0439E- R(FT) 2.281F-01 2.098E-01 1.909E-01 1.797F-01 1.691E-01 1.692E-01 1.563E-C1 1.495E-01 1.360F-01 1.292F-01 1.158E-01 1.089E-01 1.089E-01 1.089E-01 2.110F-02 7.794E-02 6.297F-02 4.815F-02 2.1348E-02	01 1.8026E PT(PSF) 2.045E 03 2.053E 03 2.056E 03 2.056E 03 2.056E 03 2.057E 03 2.067E 03 2.076E 03 2.076E 03 2.076E 03	-01 6.1146 TS(R) 4.876E 02 4.880F 02 4.980F 02 4.903F 02 4.931F 02 4.968E 02 5.018E 02 5.103E 02 5.162E 02 5.162E 02 5.211E 02 5.21E 02 5.221E 02 5.240E 02 5.273E 02 5.340E 02 5.349E 02 5.349F 02	E-01 2.033 RHO(#M/FT3) 7.820E-02 7.812E-02 7.812F-02 7.773E-02 7.732E-02 7.530F-02 7.530F-02 7.471E-02 7.336E-02 7.316E-02 7.316E-02 7.276E-02 7.131E-02 7.128E-02 7.128E-02	3E 03 2.89 UX(FT/SEC) 9.796E 01 9.796E 01 9.838E 01 9.904E 01 1.006E 02 1.074E 02 1.129E 02 1.129E 02 1.206E 02 1.300E 02 1.300E 02 1.410E 02 1.509E 02 1.509E 02 1.509E 02 1.509E 02 1.950E 02 1.950E 02 1.950E 02	M(BTU/#) 1.167E 02 1.167E 02 1.168E 02 1.168E 02 1.174E 02 1.189E 02 1.213E 02 1.223E 02 1.223E 02 1.238E 02 1.238E 02 1.258E 02 1.256E 02 1.277E 02 1.284E 02	TT(R) 4.883E 02 4.888E 02 4.888E 02 4.912E 02 4.977E 02 5.028E 02 5.074E 02 5.115E 02 5.117E 02 5.117E 02 5.117E 02 5.117E 02 5.128E 02 5.345E 02 5.345E 02 5.345E 02 5.380E 02 5.380E 02	UADJ(FT/SEC) 9-796E 01 9-796E 01 9-838E 01 9-838E 01 9-904E 01 1-036E 02 1-036E 02 1-074E 02 1-129E 02 1-129E 02 1-300E 02 1-430E 02 1-430E 02 1-509E 02 1-614E 02 1-725E 02 1-817E 02 1-903E 02 1-950E 02 1-950E 02 1-958E 02
5.0439E- R(FT) 2.281F-01 2.098E-01 1.909E-01 1.797F-01 1.691F-01 1.563E-C1 1.495E-01 1.360F-01 1.297F-01 1.297F-01 1.38E-01 1.089E-01 1.089E-01 2.110F-02 7.794E-02 4.815F-02 1.348E-02	01 1.80265 PT(PSF) 2.045E 03 2.045E 03 2.045E 03 2.045E 03 2.045E 03 2.046E 03 2.046E 03 2.053E 03 2.056E 03 2.056E 03 2.056E 03 2.057E 03 2.076E 03 2.076E 03 2.076E 03 2.076E 03 2.076E 03 2.076E 03	-01 6.1146 TS(R) 4.876E 02 4.880E 02 4.980F 02 4.931F 02 4.931F 02 4.968E 02 5.063E 02 5.103E 02 5.103E 02 5.162E 02 5.162E 02 5.162E 02 5.240E 02 5.240E 02 5.240E 02 5.240E 02 5.240E 02 5.349E 02 5.349E 02 5.349E 02 5.344E 02	E-01 2.033 RHO(#M/FT3) 7.820E-02 7.812E-02 7.812E-02 7.775E-02 7.732E-02 7.530F-02 7.471E-02 7.471E-02 7.366E-02 7.376E-02 7.316E-02 7.276E-02 7.173E-02 7.173E-02 7.173E-02 7.174E-02 7.174E-02 7.174E-02 7.174E-02 7.174E-02 7.174E-02	3E 03 2.89 UX(FT/SEC) 9.796E 01 9.796E 01 9.838E 01 9.829E 01 1.006E 02 1.030E 02 1.129E 02	70E 01 1.4 H(BTU/#) 1.167E 02 1.168E 02 1.168E 02 1.174E 02 1.181E 02 1.201E 02 1.223E 02 1.223E 02 1.223E 02 1.238E 02 1.243E 02 1.258E 02 1.258E 02 1.268E 02 1.277E 02 1.284E 02 1.286E 02 1.286E 02 1.286E 02 1.286E 02	TT(R) 4.883E 02 4.888E 02 4.888E 02 4.9912E 02 4.977E 02 5.074E 02 5.115E 02 5.117E 02 5.117E 02 5.117E 02 5.117E 02 5.126E 02 5.300E 02 5.345E 02 5.370E 02 5.380E 02 5.380E 02 5.380E 02 5.380E 02 5.380E 02	VADJ(FT/SEC) 9.796E 01 9.796E 01 9.838E 01 9.829E 01 9.904E 02 1.030E 02 1.074E 02 1.129E 02 1.206E 02 1.300E 02 1.410E 02 1.509E 02 1.614E 02 1.725E 02 1.817E 02 1.950E 02 1.950E 02
5.0439E- R(FT) 2.281F-01 2.098E-01 1.909E-01 1.797F-01 1.691E-01 1.692E-01 1.563E-C1 1.495E-01 1.360F-01 1.292F-01 1.158E-01 1.089E-01 1.089E-01 1.089E-01 2.110F-02 7.794E-02 6.297F-02 4.815F-02 2.1348E-02	01 1.8026E PT(PSF) 2.045E 03 2.053E 03 2.056E 03 2.056E 03 2.056E 03 2.057E 03 2.067E 03 2.076E 03 2.076E 03 2.076E 03	-01 6.1146 TS(R) 4.876E 02 4.880F 02 4.980F 02 4.903F 02 4.931F 02 4.968E 02 5.018E 02 5.103E 02 5.162E 02 5.162E 02 5.211E 02 5.21E 02 5.221E 02 5.240E 02 5.273E 02 5.340E 02 5.349E 02 5.349F 02	E-01 2.033 RHO(#M/FT3) 7.820E-02 7.812E-02 7.812F-02 7.773E-02 7.732E-02 7.530F-02 7.530F-02 7.471E-02 7.336E-02 7.316E-02 7.316E-02 7.276E-02 7.131E-02 7.128E-02 7.128E-02	3E 03 2.89 UX(FT/SEC) 9.796E 01 9.796E 01 9.838E 01 9.904E 01 1.006E 02 1.074E 02 1.129E 02 1.129E 02 1.206E 02 1.300E 02 1.300E 02 1.410E 02 1.509E 02 1.509E 02 1.509E 02 1.509E 02 1.950E 02 1.950E 02 1.950E 02	M(BTU/#) 1.167E 02 1.167E 02 1.168E 02 1.168E 02 1.174E 02 1.189E 02 1.213E 02 1.223E 02 1.223E 02 1.238E 02 1.238E 02 1.258E 02 1.256E 02 1.277E 02 1.284E 02	TT(R) 4.883E 02 4.888E 02 4.888E 02 4.912E 02 4.977E 02 5.028E 02 5.074E 02 5.115E 02 5.117E 02 5.117E 02 5.117E 02 5.117E 02 5.128E 02 5.345E 02 5.345E 02 5.345E 02 5.380E 02 5.380E 02	UADJ(FT/SEC) 9-796E 01 9-796E 01 9-838E 01 9-838E 01 9-904E 01 1-036E 02 1-036E 02 1-074E 02 1-129E 02 1-129E 02 1-300E 02 1-430E 02 1-430E 02 1-509E 02 1-614E 02 1-725E 02 1-817E 02 1-903E 02 1-950E 02 1-950E 02 1-958E 02
5.0439E- R(FT) 2.281F-01 2.098E-01 1.909E-01 1.797F-01 1.629F-01 1.563E-C1 1.495F-01 1.424F-01 1.360F-01 1.224F-01 1.158E-01 1.089E-01 1.003F-01 7.110F-02 7.794E-02 4.815F-02 1.348E-02 1.348E-02 1.775C-02 -2.623E-03	01 1.80265 PT(PSF) 2.045E 03 2.045E 03 2.045E 03 2.045E 03 2.045E 03 2.046E 03 2.046E 03 2.053E 03 2.053E 03 2.059E 03 2.056E 03 2.056E 03 2.056E 03 2.076E 03 2.071E 03 2.074E 03 2.076E 03	-01 6.1146 TS(R) 4.876E 02 4.880F 02 4.980F 02 4.993F 02 4.931F 02 4.968E 02 5.018E 02 5.103E 02 5.103E 02 5.162E 02 5.162E 02 5.162E 02 5.211E 02 5.211E 02 5.349E 02 5.349E 02 5.349F 02 5.344F 02 5.344F 02 5.344F 02 5.344F 02	E-01 2.033 RHO(#M/FT3) 7.820E-02 7.812E-02 7.812E-02 7.775E-02 7.775E-02 7.732E-02 7.530E-02 7.471E-02 7.357E-02 7.357E-02 7.316E-02 7.276E-02 7.276E-02 7.173E-02 7.173E-02 7.174E-02	3E 03 2.89 UX(FT/SEC) 9.796E 01 9.796E 01 9.838E 01 9.829E 01 1.006E 02 1.030E 02 1.0149E 02 1.129E 02 1.129E 02 1.125E 02 1.509E 02 1.509E 02 1.519E 02 1.959E 02 1.959E 02 1.958E 02 1.958E 02 1.958E 02	70E 01 1.4 H(BTU/#) 1.167E 02 1.168E 02 1.168E 02 1.174E 02 1.181E 02 1.181E 02 1.201E 02 1.213E 02 1.223E 02 1.223E 02 1.223E 02 1.223E 02 1.225E 02 1.255E 02 1.257E 02 1.277E 02 1.284E 02 1.286E 02	TT(R) 4.883E 02 4.888E 02 4.888E 02 4.912E 02 4.977E 02 5.028E 02 5.074E 02 5.115E 02 5.147E 02 5.147E 02 5.147E 02 5.128E 02 5.376E 02 5.380E 02 5.380E 02 5.380E 02 5.380E 02 5.380E 02 5.376E 02 5.376E 02	UADJ(FT/SEC) 9-796E 01 9-796E 01 9-838E 01 9-838E 01 9-904E 01 1-036E 02 1-036E 02 1-074E 02 1-129E 02 1-129E 02 1-300E 02 1-430E 02 1-430E 02 1-509E 02 1-614E 02 1-725E 02 1-817E 02 1-903E 02 1-950E 02 1-950E 02 1-958E 02
5.0439E- R(FT) 2.281F-01 2.098E-01 1.909E-01 1.797F-01 1.691F-01 1.691F-01 1.628F-01 1.628F-01 1.628F-01 1.628F-01 1.628F-01 1.628F-01 1.628F-01 1.794F-02 6.297F-02 4.815F-02 1.7755-02 -2.623G-03 -2.312E-02 -3.712F-02 -6.471F-02	01 1.80265 PT(PSF) 2.045E 03 2.045E 03 2.045E 03 2.045E 03 2.045E 03 2.046E 03 2.046E 03 2.056E 03 2.076E 03	-01 6.1146 TS(R) 4.876E 02 4.880E 02 4.980F 02 4.931F 02 4.931F 02 4.968E 02 5.018E 02 5.018E 02 5.103E 02 5.103E 02 5.162E 02 5.162E 02 5.240E 02 5.240E 02 5.240E 02 5.349E 02 5.349E 02 5.349E 02 5.349E 02 5.349E 02 5.344E 02 5.344F 02	E-01 2.033 RHO(#M/FT3) 7.820E-02 7.812E-02 7.812E-02 7.775E-02 7.732E-02 7.598E-02 7.536E-02 7.357E-02 7.316E-02 7.316E-02 7.316E-02 7.212E-02 7.134E-02	3E 03 2.89 UX(FT/SEC) 9.796E 01 9.796E 01 9.838E 01 9.829E 01 1.006E 02 1.030E 02 1.129E 02 1.29E 02 1.29E 02 1.29E 02 1.29E 02	70E 01 1.4 H(BTU/#) 1.167E 02 1.167E 02 1.168E 02 1.174E 02 1.181E 02 1.201E 02 1.223E 02 1.223E 02 1.223E 02 1.223E 02 1.223E 02 1.225E 02 1.258E 02 1.258E 02 1.266E 02 1.284E 02	TT(R) 4.883E 02 4.888E 02 4.888E 02 4.997E 02 4.977E 02 5.074E 02 5.115E 02 5.117E 02 5.117E 02 5.117E 02 5.126E 02 5.326E 02 5.360E 02 5.380E 02 5.380E 02 5.380E 02 5.376E 02	UADJ(FT/SEC) 9-796E 01 9-796E 01 9-838E 01 9-829E 01 9-904E 01 1.036E 02 1.036E 02 1.074E 02 1.129E 02 1.206E 02 1.300E 02 1.400E 02 1.509E 02 1.614E 02 1.725E 02 1.817E 02 1.958E 02 1.958E 02 1.958E 02
5.0439E- R(FT) 2.281E-01 2.098E-01 1.909E-01 1.797E-01 1.628E-01 1.563E-C1 1.495E-01 1.424E-01 1.360F-01 1.224E-01 1.368E-01 1.158E-01 1.089E-01 1.089E-01 2.07794E-02 4.815E-02 1.248E-02 1.248E-02 1.775C-02 2.623E-03 -7.312E-02 -3.703E-02 -6.471C-02 -7.918E-02	01 1.80265 PT(PSF) 2.045E 03 2.045E 03 2.045E 03 2.045E 03 2.045E 03 2.046E 03 2.046E 03 2.053E 03 2.053E 03 2.056E 03 2.056E 03 2.056E 03 2.076E 03	-01 6.1146 TS(R) 4.876E 02 4.880F 02 4.980F 02 4.931F 02 4.968E 02 5.063E 02 5.103E 02 5.103E 02 5.162E 02 5.162E 02 5.182E 02 5.240E 02 5.240E 02 5.315E 02 5.349E 02	E-01 2.033 RHO(#M/FT3) 7.820E-02 7.812E-02 7.812E-02 7.775E-02 7.775E-02 7.732E-02 7.598E-02 7.598E-02 7.471E-02 7.357E-02 7.316E-02 7.316E-02 7.126E-02 7.126E-02 7.134E-02 7.158E-02 7.158E-02 7.158E-02 7.158E-02 7.158E-02	3E 03 2.89 UX(FT/SEC) 9.796E 01 9.796E 01 9.838E 01 9.829E 01 1.006E 02 1.030E 02 1.0149E 02 1.206E 02 1.300E 02 1.410E 02 1.509E 02 1.410F 02 1.725E 02 1.514E 02 1.950E 02 1.958E 02	70E 01 1.4 H(BTU/#) 1.167E 02 1.168E 02 1.168E 02 1.174E 02 1.181E 02 1.181E 02 1.201E 02 1.213E 02 1.223E 02 1.223E 02 1.223E 02 1.223E 02 1.225E 02 1.255E 02 1.256E 02 1.267E 02 1.284E 02	TT(R) 4.883E 02 4.888E 02 4.888E 02 4.9940E 02 4.977E 02 5.028E 02 5.175E 02	UADJ(FT/SEC) 9-796E 01 9-796E 01 9-838E 01 9-829E 01 9-904E 01 1.036E 02 1.036E 02 1.074E 02 1.129E 02 1.206E 02 1.300E 02 1.400E 02 1.509E 02 1.614E 02 1.725E 02 1.817E 02 1.958E 02 1.958E 02 1.958E 02
5.0439E- R(FT) 2.281F-01 2.098E-01 1.909E-01 1.797E-01 1.69E-01 1.563E-C1	01 1.80265 PT(PSF) 2.045E 03 2.045E 03 2.045E 03 2.045E 03 2.045E 03 2.045E 03 2.046E 03 2.046E 03 2.056E 03 2.056E 03 2.056E 03 2.056E 03 2.076E 03	-01 6.1146 TS(R) 4.876E 02 4.880G 02 4.980F 02 4.931F 02 4.931F 02 4.968E 02 5.018E 02 5.103E 02 5.103E 02 5.162E 02 5.162E 02 5.162E 02 5.240E 02 5.240E 02 5.349E 02	E-01 2.033 RHO(#M/FT3) 7.820E-02 7.812E-02 7.812E-02 7.7775E-02 7.7775E-02 7.674E-02 7.598E-02 7.471E-02 7.471E-02 7.316E-02 7.376E-02 7.376E-02 7.376E-02 7.173E-02 7.173E-02 7.174E-02	3E 03 2.89 UX(FT/SEC) 9.796E 01 9.796E 01 9.838E 01 9.838E 01 1.006E 02 1.030E 02 1.030E 02 1.129E 02 1.129E 02 1.410E 02 1.509E 02 1.509E 02 1.955E 02 1.955E 02 1.958E 02	70E 01 1.4 H(BTU/#) 1.167E 02 1.168E 02 1.168E 02 1.174E 02 1.181E 02 1.181E 02 1.201E 02 1.213E 02 1.223E 02 1.223E 02 1.223E 02 1.223E 02 1.225E 02 1.258E 02 1.267E 02 1.266E 02 1.284E 02	TT(R) 4.883E 02 4.888E 02 4.888E 02 4.988E 02 4.912E 02 4.977E 02 5.026E 02 5.074E 02 5.115E 02 5.147E 02 5.126E 02 5.201E 02 5.201E 02 5.201E 02 5.30E 02 5.376E 02	UADJ(FT/SEC) 9-796E 01 9-796E 01 9-838E 01 9-829E 01 9-904E 01 1.036E 02 1.036E 02 1.074E 02 1.129E 02 1.206E 02 1.300E 02 1.400E 02 1.509E 02 1.614E 02 1.725E 02 1.817E 02 1.958E 02 1.958E 02 1.958E 02
5.0439E- R(FT) 2.281E-01 2.098E-01 1.909E-01 1.797E-01 1.628E-01 1.563E-C1 1.495E-01 1.424E-01 1.360F-01 1.224E-01 1.368E-01 1.158E-01 1.089E-01 1.089E-01 2.07794E-02 4.815E-02 1.248E-02 1.248E-02 1.775C-02 2.623E-03 -7.312E-02 -3.703E-02 -6.471C-02 -7.918E-02	01 1.80265 PT(PSF) 2.045E 03 2.053E 03 2.056E 03 2.056E 03 2.057E 03 2.076E 03	-01 6.1146 TS(R) 4.876E 02 4.8876E 02 4.880F 02 4.983F 02 4.933F 02 4.933F 02 5.018E 02 5.018E 02 5.103E 02 5.162E 02 5.162E 02 5.162E 02 5.162E 02 5.211E 02 5.240E 02 5.349E 02 5.349E 02 5.349F 02	E-01 2.033 RHO(#M/FT3) 7.820E-02 7.812E-02 7.812E-02 7.775E-02 7.773E-02 7.732E-02 7.530F-02 7.471E-02 7.471E-02 7.316E-02 7.316E-02 7.376E-02 7.134E-02 7.128E-02 7.128E-02 7.134E-02 7.137F-02 7.249E-02 7.249E-02 7.249E-02 7.249E-02 7.317F-02	3E 03 2.89 UX(FT/SEC) 9.796E 01 9.796E 01 9.838E 01 9.904E 01 1.006E 02 1.074E 02 1.129E 02 1.296E 02 1.300S 02 1.410F 02 1.509E 02 1.509E 02 1.509E 02 1.950E 02 1.950E 02 1.958E 02	M(BTU/#) 1-167E 02 1-167E 02 1-168E 02 1-174E 02 1-174E 02 1-181E 02 1-213E 02 1-223E 02 1-238E 02 1-238E 02 1-251E 02 1-256E 02 1-266E 02 1-284E 02	TT(R) 4.883E 02 4.888E 02 4.888E 02 4.888E 02 4.912E 02 4.977E 02 5.074E 02 5.115E 02 5.117E 02 5.117E 02 5.117E 02 5.117E 02 5.126E 02 5.33E 02 5.376E 02	UADJ(FT/SEC) 9-796E 01 9-796E 01 9-838E 01 9-829E 01 9-904E 01 1.036E 02 1.036E 02 1.074E 02 1.129E 02 1.206E 02 1.300E 02 1.400E 02 1.509E 02 1.614E 02 1.725E 02 1.817E 02 1.958E 02 1.958E 02 1.958E 02
5.0439E- R(FT) 2.281F-01 2.098E-01 1.909E-01 1.797F-01 1.691E-01 1.691E-01 1.692E-01 1.692E-01 1.692E-01 1.692E-01 1.692E-01 1.692E-01 1.798E-01 1.089E-01 1.089E-01 1.089E-01 2.110E-02 7.794E-02 6.297E-02 4.815E-02 -3.348E-02 1.775E-02 -2.623E-03 -3.312E-02 -3.703F-02 -6.471F-02 -7.918F-02 -9.209E-02 -1.062F-01	01 1.80265 PT(PSF) 2.045E 03 2.045E 03 2.045E 03 2.045E 03 2.045E 03 2.045E 03 2.046E 03 2.046E 03 2.056E 03 2.056E 03 2.056E 03 2.056E 03 2.076E 03	-01 6.1146 TS(R) 4.876E 02 4.880G 02 4.980F 02 4.931F 02 4.931F 02 4.968E 02 5.018E 02 5.103E 02 5.103E 02 5.162E 02 5.162E 02 5.162E 02 5.240E 02 5.240E 02 5.349E 02	E-01 2.033 RHO(#M/FT3) 7.820E-02 7.812E-02 7.812E-02 7.7775E-02 7.7775E-02 7.674E-02 7.598E-02 7.471E-02 7.471E-02 7.316E-02 7.376E-02 7.376E-02 7.376E-02 7.173E-02 7.173E-02 7.174E-02	3E 03 2.89 UX(FT/SEC) 9.796E 01 9.796E 01 9.838E 01 9.838E 01 1.006E 02 1.030E 02 1.030E 02 1.129E 02 1.129E 02 1.410E 02 1.509E 02 1.509E 02 1.955E 02 1.955E 02 1.958E 02	70E 01 1.4 H(BTU/#) 1.167E 02 1.168E 02 1.168E 02 1.174E 02 1.181E 02 1.181E 02 1.201E 02 1.213E 02 1.223E 02 1.223E 02 1.223E 02 1.223E 02 1.225E 02 1.258E 02 1.267E 02 1.266E 02 1.284E 02	TT(R) 4.883E 02 4.888E 02 4.888E 02 4.988E 02 4.912E 02 4.977E 02 5.026E 02 5.074E 02 5.115E 02 5.147E 02 5.126E 02 5.201E 02 5.201E 02 5.201E 02 5.30E 02 5.376E 02	UADJ(FT/SEC) 9-796E 01 9-796E 01 9-838E 01 9-829E 01 9-904E 01 1.036E 02 1.036E 02 1.074E 02 1.129E 02 1.206E 02 1.300E 02 1.400E 02 1.509E 02 1.614E 02 1.725E 02 1.817E 02 1.958E 02 1.958E 02 1.958E 02
5.0439E- R(FT) 2.281F-01 2.098E-01 1.909E-01 1.797F-01 1.691E-01 1.628F-01 1.629E-01 1.563E-C1 1.425F-01 1.360F-01 1.292F-01 1.360F-01 1.158E-01 1.089E-01 1.089E-01 1.003F-02 7.794E-02 4.815F-02 3.348E-02 1.7755-02 -2.623E-03 -2.312E-02 -3.703F-02 -3.6471F-02 -7.818E-02 -7.818E-02 -1.0625-01 -1.204E-01	01 1.8026E PT(PSF) 2.045E 03 2.045E 03 2.045E 03 2.045E 03 2.045E 03 2.046E 03 2.046E 03 2.053E 03 2.056E 03 2.076E 03	-01 6.1146 TS(R) 4.876E 02 4.880E 02 4.980F 02 4.931F 02 4.968E 02 5.063E 02 5.163E 02 5.163E 02 5.162E 02 5.162E 02 5.240E 02 5.240E 02 5.240E 02 5.240E 02 5.349E 02	E-01 2.033 RHO(#M/FT3) 7.820E-02 7.812E-02 7.812E-02 7.775E-02 7.732E-02 7.598E-02 7.598E-02 7.357E-02 7.316E-02 7.316E-02 7.316E-02 7.316E-02 7.13E-02	3E 03 2.89 UX(FT/SEC) 9.796E 01 9.796E 01 9.829E 01 9.829E 01 1.006E 02 1.030E 02 1.129E 02 1.959E 02	70E 01 1.4 H(BTU/#) 1.167E 02 1.168E 02 1.168E 02 1.174E 02 1.181E 02 1.201E 02 1.231E 02 1.223E 02 1.223E 02 1.223E 02 1.223E 02 1.223E 02 1.228E 02 1.258E 02 1.268E 02	TT(R) 4.883E 02 4.888E 02 4.888E 02 4.988E 02 4.912E 02 4.977E 02 5.074E 02 5.115E 02 5.147E 02 5.147E 02 5.147E 02 5.147E 02 5.201E 02 5.345E 02 5.380E 02 5.380E 02 5.376E 02	UADJ(FT/SEC) 9-796E 01 9-796E 01 9-838E 01 9-829E 01 9-904E 01 1.036E 02 1.036E 02 1.074E 02 1.129E 02 1.206E 02 1.300E 02 1.400E 02 1.509E 02 1.614E 02 1.725E 02 1.817E 02 1.958E 02 1.958E 02 1.958E 02

VELOCITY RATIO 2:1, TRIPPED*

VELOCITI	RATIO 2:1, 1	W145 170-					
X(FT)	RS(FT)	MA) LH	SEC) PS(P	SF) MI		AM CP	BTU/#R)
6.3006E	-01 1.8780E	-01 6.0953	6-01 2.035	3E 03 2.89	INE OF 1.4	000E 00 2.4	10005-01
R(FT)	PT(PSF)	TS(R)	RHO(#M/FT3)			TT(R)	UADJ(FT/SEC)
2.134F-01	2.045E 03	4.890E 02	7.7978-02	9.793F 01	1.170E 02	4.898E 02	9.793E OL
_1.9575-01	2.045E 03	4.890E 02	7.7975-02	9.838E 01	1.171E_02	_4.898E_02	9.839E_01
1.9206-01		4.904E 02	7.775E-02	9.850E 01	1.174E 02	4.912E 02	9.851E 01
1.683E-01	2.045E 03	4.936F 02	7.7245-02	1.001E 02	1.181E 02	4.944E 02	1.001E 02
1.6216-01	2.046E 03	4.9645 02	7.6815-02	1.020E 02	1.188E 02	4.972E 02	1.020E 02
1.5615-01	2.046E 03	5.000E 02	7.625E-02	1.045E 02	1.198E 02	5.009E 02	1.746E 02
1.496E-01	2.047E 03	5.0455 02	7.556E-02	1.092ê 02	1.208E 02	5.055E 02	1.093€ 02
_ le <u>425F-01</u>	2.049E 03	_5.081E_92.	7.5035-02	1.146E 02	1.2176 02	5.092E 02.	1.148E 02.
1.360E-01	2.050E 03	5.121E 02	7-445E-02	1.211F 02	1.227E 02	5.133E 02	1.213E 02
1.295E-01	2.052E 03	5.138E 02	7.421E-02	1.289E 02	1.231E 02	5.151E 02	1.292E 02
1.270E-01	2.055E 03	5.163E 02	7.384E-02	1.370E 02	1.238E 02	5.179E 02	1.374E 02
1.168F-01	2.0598 03	5.188F 02			1.244E 02	5.206E 02	1.476E 02
			7.3496-02				
1.1075-01	2.061E 03	5.1998 02	7.3335-02	1.5615 02	1.248E 02	5.219E 02	1.567E 02
1.0415-01	2.064F 03	_5.224E_02	7.298E-02	1.646E 02	1.2548 02	.5.246E 02	_1.653E_02.
9.7116-02	2.067E 03	5.244E 02	7.2708-02	1.730E 02	1.259E 02	5.269E 02	1.738E 02
6.8988-02	2.075F 03	5.327E 02	7.1576-02	1.936E 02	1.281E 02	5.3588 02	1.946E 02
5.915E-02	2.076E 03	5.34 CE 02	7.140E-02		1.284E 02	5.372E 02	1.962E 02
4.7815-02	2.076E 03	5.353E 02	7.1235-02	1.969E 02	1.288E 02	5.385E 02	1.979E 02
3.132E-02	2.077E 03	5.357E 02	7.117E-02	1.976E 02	1.288E 02	5.389E 02	1.986E 02
	_ 2.076E_03_		7.116E-02	1.958E 02	1.288E Q2		1.968E.02
-1.623F-03	2.076E 03	5.358E 02	7.116E-02	1.952E 02	1.288E 02	5.389E 02	
-1.9535-02	2.076E 03	5.3539 02	7.1228-02	1.957E 02	1.2875 02	5.385E 02	
-3.499F-02	2.0760 03	5.357F 02	7.117E-02	1.965E 02	1.288E 02	5.389E 02	
-5.159E-02	2.076E 03	5.348E 02	7.1298-02	1.967E 02	1.286E 02	5.380E 02	
-6.416E-02	2.076E 03	5.335E 02	7.146E-02	1.953€ 02	1.283E 02	5.367E 02	
-7.658E-02		5.31.0E_02		1,9136 02	1.276E 02.	_5 <u>-340E</u> _02.	
-8.9155-02	2.071E 03	1.263E 02	7.2446-02	1.833E 02	1.264E 02	5.291E 02	
-1.0230-01	د0 2.066 2	5.231E 02	7.288F-02	1.703E 02	1.256E 02	5.255E 02	
-1.1566-01	2.060E 03	5.1878 02	7.3515-02	1.517E 02	1.244E 02	5.206E 02	
	240000 03	70.101. UL				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
_1 2065_01	2 0545 03	5 1415 02	7 4165-02	1 2255 02	1 2225 02	5.15AE 02	
-1.2855-01	2.054E 03	5.141E 02	7.415E-02	1.3256 02	1.232E 02	5,156E 02	
-1.2855-01 -1.360F-01		5.141E 02 5.112C 02	7.415E-02 7.459E-02	1.325E 02 1.230E 02	1.232E 02 1.224E 02	5,156E 02 5.124E 02	
	•						
-1.360F-01	2.051E 03	5.1120 02	7.459E-02	1.230E 02	1.224€ 02	5.124E 02	
	•	5.1120 02	7.459E-02	1.230E 02	1.224E 02	5.124E 02	(BTU/4R)
-1.360F-01	2.051E 03	5.112E 02	7.459E-02 /SEC) PS(P	1.230E 02	1.224E 02	5.124E 02	(8TU/4R) 4000E-01
-1.360F-01 X(FT)	2.051E 03	5.112E 02	7.459E-02 /SEC) PS(P	1.230E 02	1.224E 02	5.124E 02	
-1.360F-01 X(FT) 7.5165E	2.051E 03 RS(FT) -01 1.9510E	5.112E 02 HJ(#M -01 6.101	7.459E-02 /SEC) PS(P 8E-01 2.033	1.230E 02 SF) M 3E 03 2.89	1.224E 02 W (70E 01 1.4	5.124E 02 GAM CP 4000E 00 2.	4000E-01
-1.360F-01 X(FT) 7.5165E P(FT)	2.051E 03 RS(FT) -01 1.9510E PT(PSF)	5.112E 02 HJ(#M -01 6.101 TS(R)	7.459E-02 /SEC) PS(P 8E-01 2.033 RHO(MM/FT3)	1.230E 02 SF) M 3E 03 2.89 UX(FT/SEC)	1.224E 02 W (70E 01 1.4	5.124E 02 GAM CP 1000E 00 2. TT(R)	400UE-01 UADJ(FT/SEC)
-1.360F-01 X(FT) 7.5165E P(FT) 2.310E-01	2.051E 03 RS(FT) -01 1.9510E PT(PSF) 2.045E 03	5.112E 02 WJ(#M -01 6.101 TS(R) 4.899F 02	7.459E-02 /SEC) PS(P 8E-01 2.033 RHO(#M/FT3) 7.783E-02	1.230E 02 SF) M 3E 03 2.89 UX(FT/SEC) 9.845E 01	1.224E 02 W (70E 01 1.4 H(8TU/#) 1.173E 02	5.124E 02 GAM CP 6000E 00 2. TT(R) 4.907E 02	4000E-01 UADJ(FT/SEC) 9.845E 01
x(FT) 7.5165E P(FT) 2.310E-01 2.132E-01	2.051E 03 RS(FT) -01 1.9510E PT(PSF) 2.045E 03 2.045E 03	5.112E 02 WJ(WM -01 6.101 TS(R) 4.899F 02 4.899E 02	7.459E-02 /SEC) PS(F8E-01 2.033 RHO(#M/FT3) 7.783E-02 7.783E-02	1.230E 02 SF) M 3E 03 2.89 UX(FT/SEC) 9.845E 01 9.828E 01	1.224E 02 W (70E 01 1.4 H(8TU/#) 1.173E 02 1.173E 92	5.124E 02 GAM CP 600JE 00 2. TT (R) 4.907E 02 4.907E 02	4000E-01 UADJ(FT/SEC) 9.845E 01 9.827E 01
-1.360F-01 X(FT) 7.5165E P(FT) 2.310E-01	2.051E 03 RS(FT) -01 1.9510E PT(PSF) 2.045E 03 2.045E 03	5.112E 02 HJ(#M F-01 6.101 TS(R) 4.899F 02 4.899E 02 4.908E 02	7.459E-02 /SEC) PS(P8E-01 2.033 RMO(#M/FT3) 7.783E-02 7.783E-02 7.768E-02	1.230E 02 SF) M 3E 03 2.89 UX(FT/SEC) 9.845E 01 9.829E 01 9.829E 01	1.224E 02 W (70E 01 1.4 H(8TU/#) 1.173E 02 1.173E 02 1.174E 02	5.124E 02 SAM CP 600JE 00 2. TT (R) 4.907E 02 4.907E_02 4.916E 02	4000E-01 UADJ(FT/SEC) 9.845E 01 9.827E 01 9.829E 01
x(FT) 7.5165E P(FT) 2.310E-01 2.132E-01	PT(PSF) 2.045E 03 2.045E 03 2.045E 03 2.045E 03	5.112E 02 WJ(WM -01 6.101 TS(R) 4.899F 02 4.899E 02	7.459E-02 /SEC) PS(F8E-01 2.033 RHO(#M/FT3) 7.783E-02 7.783E-02	1.230E 02 SF) M 3E 03 2.89 UX(FT/SEC) 9.845E 01 9.828E 01	1.224E 02 W (70E 01 1.4 H(8TU/#) 1.173E 02 1.173E 92	5.124E 02 GAM CP 600JE 00 2. TT (R) 4.907E 02 4.907E 02	4000E-01 UADJ(FT/SEC) 9.845E 01 9.827E 01
-1.360F-01 X(FT) 7.5165E P(FT) 2.310E-01 2.132E-01 1.950E-01 1.805E-01	PT(PSF) 2.045E 03 2.045E 03 2.045E 03 2.045E 03	5.112E 02 HJ(#M F-01 6.101: TS(R) 4.899F 02 4.998E 02 4.927E 02	7.459E-02 /SEC) PS(P8E-01 2.033 RMO(MM/FT3) 7.783E-02 7.768E-02 7.768E-02 7.738E-02	1.230E 02 SF) M 3E 03 2.89 UX(FT/SEC) 9.845E 01 9.828E 01 9.829E 01 9.927E 01	H(BTU/#) 1.173E 02 1.174E 02 1.174E 02 1.179E 02	5.124E 02 GAM CP 4000E 00 2. TT (R) 4.907E 02 4.907E 02 4.916E 02 4.935E 02	UADJ(FT/SEC) 9.845E 01 9.827E 01 9.829E 01 9.926E 01
-1.360F-01 x(FT) 7.5165E P(FT) 2.310E-01 1.950E-01 1.805E-01 1.805E-01	2.051E 03 RS(FT) -01 1.9510E PT(PSF) 2.045E 03 2.045E 03 2.045E 03 2.045E 03	5.112E 02 ***********************************	7.459E-02 /SEC) PS(P8E-01 2.033 RHO(MM/FT3) 7.783E-02 7.768E-02 7.768E-02 7.695E-02	1.230E 02 SF) M 3E 03 2.89 UX(FT/SEC) 9.845E 01 9.829E 01 9.829E 01 9.927E 01 1.005E 02	1.224E 02 W (70E 01 1.4 H(8TU/#) 1.173E 02 1.174E 02 1.174E 02 1.179E 02 1.186E 02	5.124E 02 SAM CP 600JE 00 2. TT(R) 4.907E 02 4.907E 02 4.916E 02 4.935E 02 4.963E 02	UADJ(FT/SEC) 9.845E 01 9.827E 01 9.829E 01 9.926E 01 1.005E 02
7.5165E P(FT) 2.310E-01 2.132E-01 1.950E-01 1.805E-01 1.722F-01 1.6405-01	2.051E 03 RS(FT) -01 1.9510E PT(PSF) 2.045E 03 2.045E 03 2.045E 03 2.045E 03 2.045E 03	5.112E 02 WJ(#M -01 6.101 TS(R) 4.899F 02 4.908E 02 4.927E 02 4.954E 02 4.996E 02	7.459E-02 /SEC! PS(P8E-01 2.033 RMO(NM/FT3) 7.783E-02 7.783E-02 7.786E-02 7.695E-02 7.632E-02 7.632E-02	1.230E 02 SF) M 3E 03 2.89 UX(FT/SEC) 9.845E 01 9.829E 01 9.829E 01 9.927E 01 1.005E 02 1.033E 02	1.224E 02 W (70E 01 1.4 H(8TU/#) 1.173E 02 1.173E 02 1.174E 02 1.179E 02 1.186E 02 1.196E 02	5.124E 02 SAM CP OOUE 00 2. TT(R) 4.907E 02 4.907E 02 4.916E 02 4.935E 02 4.963E 02 5.005E 02	UADJ(FT/SEC) 9.845E 01 9.827E 01 9.829E 01 9.926E 01 1.005E 02 1.032E 02
x(FT) 7.5165E P(FT) 2.310E-01 2.132E-01 1.950E-01 1.805E-01 1.722F-01 1.6405-01 1.559E-01	2.051E 03 RS(FT) -01 1.9510E PT(PSF) 2.045E 03 2.045E 03 2.045E 03 2.045E 03 2.045E 03 2.045E 03	5.112E 02 HJ(#M -01 6.101 TS(R) 4.899F 02 4.899E 02 4.908E 02 4.954E 02 4.954E 02 4.956E 02 5.032E 02	7.459E-02 /SEC! PS(P8E-01 2.033 RHO(WM/FT3) 7.783E-02 7.768E-02 7.738E-02 7.695E-02 7.632E-02 7.577E-02	1.230E 02 SF) M 3E 03 2.89 UX(FT/SEC) 9.845E 01 9.829E 01 9.927E 01 1.005E 02 1.033E 02 1.072E 02	H(8TU/#) 1.173E 02 1.173E 02 1.173E 02 1.174E 02 1.179E 02 1.186E 02 1.196E 02 1.204E 02	5.124E 02 SAM CP OOUE 00 2. TT(R) 4.907E 02 4.907E 02 4.916E 02 4.916E 02 4.963E 02 5.005E 02 5.042E 02	UADJ(FT/SEC) 9.845E 01 9.827E 01 9.829E 01 9.926E 01 1.005E 02 1.032E 02 1.071E 02
7.5165E P(FT) 2.310E-01 2.132E-01 1.950E-01 1.805E-01 1.72F-01 1.640F-01 1.559E-01	2.051E 03 RS(FT) -01 1.9510E PT(PSF) 2.045E 03	5.112E 02 HJ(#M -01 6.101 TS(R) 4.899F 02 4.998E 02 4.927E 02 4.954E 02 4.996E 02 5.032E 02 5.086E 02	7.459E-02 /SEC) PS(P8E-01 2.033 RMO(#M/FT3) 7.783E-02 7.768E-02 7.695E-02 7.632E-02 7.577E-02 7.496E-02	1.230E 02 SF) M 3E 03 2.89 UX(FT/SEC) 9.845E 01 9.829E 01 9.927E 01 1.005E 02 1.033E 02 1.072E 02 1.072E 02 1.143E 02	H(8TU/W) 1.173E 02 1.173E 02 1.173E 02 1.179E 02 1.179E 02 1.186E 02 1.196E 02 1.2104E 02	5.124E 02 SAM CP ***********************************	UADJ(FT/SEC) 9.845E 01 9.827E 01 9.829E 01 9.926E 01 1.005E 02 1.003E 02 1.071E 02
7.51656 P(FT) 2.310E-01 2.132E-01 1.950E-01 1.805E-01 1.805E-01 1.559E-01 1.559E-01 1.559E-01	2.051E 03 RS(FT) -01 1.9510E PT(PSF) 2.045E 03 2.045E 03 2.045E 03 2.045F 03 2.045F 03 2.046E 03 2.047E 03 2.047E 03 2.047E 03	5.112E 02 HJ(#M -01 6.101 TS(R) 4.899F 02 4.998F 02 4.92F 02 4.954E 02 4.954E 02 5.032E 02 5.086E 02 5.121F 02	7.459E-02 /SEC) PS(P8E-01 2.033 RMO(MM/FT3) 7.783E-02 7.768E-02 7.738E-02 7.695E-02 7.632E-02 7.577E-02 1.596E-02 7.445E-02	1.230E 02 SF) M 3E 03 2.89 UX(FT/SEC) 9.845E 01 9.829E 01 9.829E 01 1.005E 02 1.033E 02 1.072E 02 1.143E 02 1.218E 02	1.224E 02 W (70E 01 1.4 H(8TU/#) 1.173E 02 1.174E 02 1.179E 02 1.186E 02 1.196E 02 1.204E 02 1.218E 02 1.227E 02	5.124E 02 SAM CP 600JE 00 2. TT (R) 4.907E 02 4.901E 02 4.916E 02 4.963E 02 5.005E 02 5.042E 02 5.042E 02 5.042E 02 5.043E 02	UADJ(FT/SEC) 9.845E 01 9.827E 01 9.829E 01 9.926E 01 1.005E 02 1.032E 02 1.071E 02 1.141E 02 1.215E 02
7.5165E P(FT) 2.310E-01 2.132E-01 1.950E-01 1.805E-01 1.722F-01 1.6405-01 1.559E-01 1.471E-01 1.3857-01 1.296F-01	2.051E 03 RS(FT) -01 1.9510E PT(PSF) 2.045E 03 2.045E 03 2.045F 03 2.045F 03 2.046E 03 2.047E 03 2.047E 03 2.047E 03 2.047E 03 2.050E 02 2.054E 03	5.112E 02 WJ(#M -01 6.101 TS(R) 4.899F 02 4.908F 02 4.927F 02 4.954E 02 4.954E 02 5.032F 02 5.036F 02 5.121F 02 5.159F 02	7.459E-02 /SEC! PS(P8E-01 2.033 RMO(NM/FT3) 7.783E-02 7.768E-02 7.695E-02 7.632E-02 7.577E-02 7.445E-02 7.445E-02 7.389E-02	1.230E 02 SF) M 3E 03 2.89 UX(FT/SEC) 9.845E 01 9.829E 01 9.829E 01 1.005E 02 1.033E 02 1.072E 02 1.143E 02 1.218E 02 1.329E 02	1.224E 02 W (70E 01 1.4 H(8TU/W) 1.173E 02 1.174E 02 1.179E 02 1.186E 02 1.204E 02 1.218E 02 1.227E 02 1.237E 02	5.124E 02 JAM CP OOUE 00 2. TT(R) 4.907E 02 4.901E 02 4.916E 02 4.963E 02 5.005E 02 5.042E 02 5.07E 02 5.133E 02 5.174E 02	UADJ(FT/SEC) 9.845E 01 9.827E 01 9.829E 01 9.926E 01 1.005E 02 1.032E 02 1.071E 02 1.215E 02 1.326E 02
7.51656 P(FT) 2.310E-01 2.132E-01 1.950E-01 1.805E-01 1.805E-01 1.559E-01 1.559E-01 1.559E-01	2.051E 03 RS(FT) -01 1.9510E PT(PSF) 2.045E 03 2.045E 03 2.045E 03 2.045F 03 2.045F 03 2.047E 03 2.047E 03 2.047E 03 2.047E 03 2.047E 03 2.047E 03	5.112E 02 HJ(#M -01 6.101 TS(R) 4.899F 02 4.998F 02 4.92F 02 4.954E 02 4.954E 02 5.032E 02 5.086E 02 5.121F 02	7.459E-02 /SEC) PS(P8E-01 2.033 RMO(MM/FT3) 7.783E-02 7.768E-02 7.738E-02 7.695E-02 7.632E-02 7.577E-02 1.596E-02 7.445E-02	1.230E 02 SF) M 3E 03 2.89 UX(FT/SEC) 9.845E 01 9.829E 01 9.829E 01 1.005E 02 1.033E 02 1.072E 02 1.143E 02 1.218E 02	1.224E 02 W (70E 01 1.4 H(8TU/#) 1.173E 02 1.174E 02 1.179E 02 1.186E 02 1.196E 02 1.204E 02 1.218E 02 1.227E 02	5.124E 02 JAM CP OOUE 00 2. TT(R) 4.907E 02 4.907E 02 4.916E 02 4.963E 02 5.005E 02 5.042E 02 5.07E 02 5.134E 02 5.174E 02 5.174E 02 5.201E 02	UADJ(FT/SEC) 9.845E 01 9.827E 01 9.829E 01 9.926E 01 1.005E 02 1.032E 02 1.071E 02 1.141E 02 1.326E 02 1.326E 02 1.432E 02
7.5165E P(FT) 2.310E-01 2.132E-01 1.950E-01 1.805E-01 1.722F-01 1.6405-01 1.559E-01 1.471E-01 1.3857-01 1.296F-01	2.051E 03 RS(FT) -01 1.9510E PT(PSF) 2.045E 03 2.050E 03	5.112E 02 WJ(#M -01 6.101 TS(R) 4.899F 02 4.998E 02 4.927E 02 4.954E 02 4.956E 02 5.032E 02 5.086E 02 5.159E 02 5.159E 02 5.159E 02 5.159E 02 5.184E 02	7.459E-02 /SEC! PS(P8E-01 2.033 RHO(#M/FT3) 7.783E-02 7.768E-02 7.695E-02 7.632E-02 7.577E-02 1.596E-02 7.389E-02 7.389E-02 7.354E-^	1.230E 02 SF) M 3E 03 2.89 UX(FT/SEC) 9.845E 01 9.829E 01 9.829E 01 1.005E 02 1.033E 02 1.072E 02 1.143E 02 1.218E 02 1.329E 02 1.436F 02	H(8TU/#) 1.173E 02 1.173E 02 1.174E 02 1.179E 02 1.186E 02 1.196E 02 1.204E 02 1.227E 02 1.237E 02 1.243E 02	5.124E 02 JAM CP OOUE 00 2. TT(R) 4.907E 02 4.901E 02 4.916E 02 4.963E 02 5.005E 02 5.042E 02 5.07E 02 5.133E 02 5.174E 02	UADJ(FT/SEC) 9.845E 01 9.827E 01 9.829E 01 9.926E 01 1.005E 02 1.032E 02 1.071E 02 1.141E 02 1.326E 02 1.326E 02 1.432E 02
7.360F-01 X(FT) 7.5165E P(FT) 2.310E-01 2.132E-01 1.950E-01 1.722F-01 1.640F-01 1.559E-01 1.385F-01 1.296F-01 1.296F-01 1.299F-01 1.117E-01	2.051E 03 RS(FT) -01 1.9510E PT(PSF) 2.045E 03 2.050E 03	5.112E 02 WJ(WM-01 6.101: TS(R) 4.899F 02 4.908F 02 4.927F 02 4.954E 02 4.954E 02 5.032E 02 5.086E 02 5.121F 02 5.184F 02 5.208F 02	7.459E-02 /SEC) PS(P8E-01 2.033 RMO(WM/FT3) 7.783E-02 7.788E-02 7.738E-02 7.695E-02 7.577E-02 7.577E-02 7.445E-02 7.389E-02 7.389E-02 7.354E-^	1.230E 02 SF) M 3E 03 2.89 UX(FT/SEC) 9.845E 01 9.829E 01 9.829E 01 1.005E 02 1.033E 02 1.072E 02 1.143E 02 1.218E 02 1.329E 02 1.436F 02 1.436F 02 1.561E 02	H(8TU/#) 1.173E 02 1.173E 02 1.174E 02 1.179E 02 1.179E 02 1.196E 02 1.204E 02 1.218E 02 1.227E 02 1.237E 02 1.249E 02	5.124E 02 SAM CP 600JE 00 2. TT (R) 4.907E 02 4.907E 02 4.916E 02 5.005E 02 5.005E 02 5.007E 02 5.133E 02 5.174E 02 5.201E 02 5.201E 02 5.201E 02 5.201E 02 5.201E 02	UADJ(FT/SEC) 9.845E 01 9.827E 01 9.829E 01 1.005E 02 1.032E 02 1.032E 02 1.141E 02 1.215E 02 1.32E 02 1.32E 02
-1.360F-01 x(FT) 7.5165E P(FT) 2.310E-01 1.950E-01 1.805E-01 1.722F-01 1.6405-01 1.559E-01 1.385F-01 1.296F-01 1.209F-01 1.117E-01 1.031F-01	2.051E 03 RS(FT) -01 1.9510E PT(PSF) 2.045E 03 2.045E 03 2.045E 03 2.045E 03 2.046E 03 2.047E 03 2.047E 03 2.047E 03 2.057E 03 2.057E 03 2.057E 03 2.065E 03	5.112E 02 ***J(#M**) -01 6.101* TS(R) 4.899F 02 4.908E 02 4.924E 02 4.954E 02 4.954E 02 5.026E 02 5.121F 02 5.124F 02 5.128F 02 5.228E 02	7.459E-02 /SEC) PS(P8E-01 2.033 RMO(MM/FT3) 7.783E-02 7.768E-02 7.695E-02 7.632E-02 7.577E-02 7.445E-02 7.445E-02 7.389E-02 7.354E-0 7.320E-04 7.293E-02	1.230E 02 SF) M 3E 03 2.89 UX(FT/SEC) 9.845E 01 9.829E 01 9.829E 01 1.005E 02 1.033E 02 1.072E 02 1.143E 02 1.218E 02 1.329E 02 1.436F 02 1.561E 02 1.674E 02	1.224E 02 W (70E 01 1.4 H(8TU/#) 1.173E 02 1.174E 02 1.179E 02 1.179E 02 1.196E 02 1.204E 02 1.218E 02 1.227E 02 1.237E 02 1.243E 02 1.243E 02 1.243E 02 1.245E 02	5.124E 02 SAM CP OOUE 00 2. TT (R) 4.907E 02 4.907E 02 4.916E 02 4.963E 02 5.005E 02 5.042E 02 5.042E 02 5.133E 02 5.174E 02 5.201E 02 5.221E 02 5.251E 02	UADJ(FT/SEC) 9.845E 01 9.827E 01 9.829E 01 9.926E 01 1.005E 02 1.032E 02 1.141E 02 1.215E 02 1.326E 02 1.432E 02 1.555E 02 1.667E 02
-1.360F-01 X(FT) 7.5165E P(FT) 2.310E-01 2.132E-01 1.950E-01 1.805E-01 1.640F-01 1.559E-01 1.471E-01 1.296F-01 1.209F-01 1.117E-01 1.031F-01 9.115E-02	2.051E 03 RS(FT) -01 1.9510E PT(PSF) 2.045E 03 2.045E 03 2.045F 03 2.045F 03 2.046E 03 2.047E 03 2.047E 03 2.047E 03 2.047E 03 2.057E 03 2.057E 03 2.057E 03 2.057E 03 2.065E 03 2.065E 03	5.112E 02 WJ(WM -01 6.101) TS(R) 4.899F 02 4.908E 02 4.927E 02 4.954E 02 4.996E 02 5.032E 02 5.032E 02 5.121F 02 5.159E 02 5.184F 02 5.228E 02 5.228E 02 5.228E 02 5.228E 02	7.459E-02 /SEC! PS(P8E-01 2.033 RHO(WM/FT3) 7.783E-02 7.768E-02 7.695E-02 7.695E-02 7.632E-02 7.577E-02 7.445E-02 7.389E-02 7.389E-02 7.354E-^ 7.320E-0 7.293E-02 7.242E-02	1.230E 02 SF) M 3E 03 2.89 UX(FT/SEC) 9.845E 01 9.829E 01 9.829E 01 1.0035E 02 1.033E 02 1.072E 02 1.143E 02 1.218E 02 1.329E 02 1.436F 02 1.561E 02 1.561E 02 1.674E 02 1.790E 02	1.224E 02 W (70E 01 1.4 H(8TU/#) 1.173E 02 1.173E 02 1.174E 02 1.179E 02 1.196E 02 1.204E 02 1.218E 02 1.227E 02 1.237E 02 1.249E 02 1.249E 02 1.249E 02 1.255E 02 1.264E 02	5.124E 02 JAM CP OOUE 00 2. TT(R) 4.907E 02 4.907E 02 4.916E 02 4.963E 02 5.005E 02 5.042E 02 5.133E 02 5.174E 02 5.201E 02 5.251E 02 5.251E 02 5.251E 02 5.251E 02 5.251E 02	UADJ(FT/SEC) 9.845E 01 9.827E 01 9.829E 01 9.926E 01 1.005E 02 1.071E 02 1.071E 02 1.215E 02 1.326E 02 1.432E 02 1.432E 02 1.667E 02 1.782E 02
7.360F-01 X(FT) 7.5165E P(FT) 2.310E-01 1.950E-01 1.805E-01 1.727-01 1.559E-01 1.385F-01 1.296F-01 1.209F-01 1.031F-01 7.890E-02	2.051E 03 RS(FT) -01 1.9510E PT(PSF) 2.045E 03 2.045E 03 2.045E 03 2.045E 03 2.045E 03 2.046E 03 2.047E 03 2.046E 03 2.050E 02 2.054E 03 2.050E 02 2.054E 03 2.057E 03 2.061E 03 2.073E 03	5.112E 02 WJ(#M -01 6.101) TS(R) 4.899F 02 4.998E 02 4.996E 02 4.996E 02 5.032E 02 5.121E 02 5.159E 02 5.159E 02 5.28E 02 5.265E 02 5.265E 02 5.265E 02 5.207F 02	7.459E-02 /SEC! PS(P8E-01 2.033 RHO(#M/FT3) 7.783E-02 7.768E-02 7.695E-02 7.632E-02 7.577E-02 1.596E-02 7.389E-02 7.384E-^ 7.320E-04 7.293E-02 7.184E-02 7.184E-02	1.230E 02 SF) M 3E 03 2.89 UX(FT/SEC) 9.845E 01 9.829E 01 9.927E 01 1.005E 02 1.033E 02 1.072E 02 1.143E 02 1.218E 02 1.329E 02 1.329E 02 1.561E 02 1.561E 02 1.674E 02 1.790E 02 1.873E 02	H(8TU/#) 1.173E 02 1.173E 02 1.174E 02 1.179E 02 1.186E 02 1.196E 02 1.204E 02 1.227E 02 1.237E 02 1.243E 02 1.249E 02 1.245E 02 1.255E 02 1.264E 02 1.265E 02 1.265E 02	5.124E 02 JAM CP JOUE 00 2. TT(R) 4.907E 02 4.916E 02 4.916E 02 4.963E 02 5.005E 02 5.042E 02 5.133E 02 5.174E 02 5.126E 02 5.201E 02 5.228E 02 5.251E 02	UADJ(FT/SEC) 9.845E 01 9.827E 01 9.829E 01 9.926E 01 1.005E 02 1.071E 02 1.141E 02 1.215E 02 1.326E 02 1.326E 02 1.432E 02 1.432E 02 1.432E 02 1.432E 02 1.432E 02 1.467E 02 1.782E 02
7.360F-01 X(FT) 7.5165E P(FT) 2.310E-01 1.950E-01 1.722F-01 1.640E-01 1.559E-01 1.571E-01 1.296F-01 1.296F-01 1.031F-01 9.115E-02 7.890E-02 6.589F-02	2.051E 03 RS(FT) -01 1.9510E PT(PSF) 2.045E 03 2.045E 03 2.045E 03 2.045E 03 2.046E 03 2.046E 03 2.046E 03 2.050E 03	5.112E 02 WJ(WM) -01 6.101 TS(R) 4.899F 02 4.908E 02 4.927E 02 4.954E 02 5.032E 02 5.086E 02 5.121F 02 5.159E 02 5.128F 02 5.288F 02 5.228E 02 5.2307F 02 5.336E 02	7.459E-02 /SEC) PS(P8E-01 2.033 RMO(WM/FT3) 7.783E-02 7.788E-02 7.695E-02 7.632E-02 7.577E-02 1.596E-02 7.389E-02 7.354E-^ 7.320E-04 7.293E-02 7.145E-02 7.145E-02 7.145E-02	1.230E 02 SF) M 3E 03 2.89 UX(FT/SEC) 9.845E 01 9.829E 01 9.829E 01 1.005E 02 1.033E 02 1.072E 02 1.143E 02 1.218E 02 1.329E 02 1.436F 02 1.436F 02 1.436F 02 1.561E 02 1.674E 02 1.674E 02 1.873E 02	1.224E 02 W (70E 01 1.4 H(8TU/W) 1.173E 02 1.174E 02 1.174E 02 1.179E 02 1.186E 02 1.204E 02 1.218E 02 1.227E 02 1.227E 02 1.249E 02 1.249E 02 1.249E 02 1.264E 02 1.264E 02 1.264E 02	5.124E 02 SAM CP 600JE 00 2. TT (R) 4.907E 02 4.901E 02 4.916E 02 5.005E 02 5.005E 02 5.007E 02 5.133E 02 5.174E 02 5.201E 02 5.201E 02 5.221E 02 5.291E 02 5.336E 02 5.367E 02	UADJ(FT/SEC) 9.845E 01 9.827E 01 9.829E 01 9.926E 01 1.005E 02 1.032E 02 1.071E 02 1.141E 02 1.215E 02 1.326E 02 1.326E 02 1.326E 02 1.432E 02 1.432E 02 1.432E 02 1.555E 02 1.667E 02 1.782E 02 1.864E 02 1.925E 02
-1.360F-01 x(FT) 7.5165E P(FT) 2.310E-01 1.950E-01 1.805E-01 1.722F-01 1.6409-01 1.559E-01 1.296F-01 1.209F-01 1.175-01 1.031F-01 9.115E-02 7.890E-02 4.971E-02	2.051E 03 RS(FT) -01 1.9510E PT(PSF) 2.045E 03 2.045E 03 2.045E 03 2.045E 03 2.046E 03 2.047E 03 2.046E 03 2.057E 03 2.057E 03 2.073E 03 2.073E 03 2.076E 03	5.112E 02 ***J(#M**) -01 6.101* TS(R) 4.899F 02 4.998F 02 4.9954E 02 4.9954E 02 5.032E 02 5.02E 02 5.121F 02 5.124F 02 5.125E 02 5.28E 02 5.265E 02 5.366E 02 5.366E 02	7.459E-02 /SEC) PS(P8E-01 2.033 RMO(MM/FT3) 7.783E-02 7.768E-02 7.695E-02 7.632E-02 7.445E-02 7.445E-02 7.389E-02 7.394E-0 7.320E-04 7.293E-02 7.145E-02 7.145E-02 7.145E-02 7.165E-02	1.230E 02 SF) M 3E 03 2.89 UX(FT/SEC) 9.845E 01 9.829E 01 9.829E 01 1.005E 02 1.033E 02 1.072E 02 1.143E 02 1.218E 02 1.329E 02 1.443E 02 1.561E 02 1.561E 02 1.674E 02 1.790E 02 1.935E 02 1.935E 02 1.935E 02 1.935E 02	1.224E 02 W (70E 01 1.4 H(8TU/#) 1.173E 02 1.174E 02 1.174E 02 1.179E 02 1.186E 02 1.204E 02 1.217E 02 1.227E 02 1.237E 02 1.243E 02 1.243E 02 1.243E 02 1.243E 02 1.243E 02 1.255E 02 1.255E 02 1.264E 02 1.275E 02	5.124E 02 SAM CP OOUE 00 2. TT (R) 4.907E 02 4.907E 02 4.916E 02 5.005E 02 5.005E 02 5.017E 02 5.133E 02 5.174E 02 5.201E 02 5.221E 02 5.221E 02 5.236E 02 5.336E 02 5.336E 02 5.398E 02	UADJ(FT/SEC) 9.845E 01 9.827E 01 9.829E 01 9.926E 01 1.005E 02 1.032E 02 1.141E 02 1.215E 02 1.326E 02 1.432E 02 1.432E 02 1.5555E 02 1.667E 02 1.782E 02 1.925E 02 1.925E 02
7.360F-01 X(FT) 7.5165E P(FT) 2.310E-01 1.950E-01 1.722F-01 1.640E-01 1.559E-01 1.571E-01 1.296F-01 1.296F-01 1.031F-01 9.115E-02 7.890E-02 6.589F-02	2.051E 03 RS(FT) -01 1.9510E PT(PSF) 2.045E 03 2.045E 03 2.045E 03 2.045E 03 2.046E 03 2.047E 03 2.046E 03 2.057E 03 2.057E 03 2.073E 03 2.073E 03 2.076E 03	5.112E 02 WJ(WM) -01 6.101 TS(R) 4.899F 02 4.908E 02 4.927E 02 4.954E 02 5.032E 02 5.086E 02 5.121F 02 5.159E 02 5.128F 02 5.288F 02 5.228E 02 5.2307F 02 5.336E 02	7.459E-02 /SEC) PS(P8E-01 2.033 RMO(WM/FT3) 7.783E-02 7.788E-02 7.695E-02 7.632E-02 7.577E-02 1.596E-02 7.389E-02 7.354E-^ 7.320E-04 7.293E-02 7.145E-02 7.145E-02 7.145E-02	1.230E 02 SF) M 3E 03 2.89 UX(FT/SEC) 9.845E 01 9.829E 01 9.829E 01 1.0035E 02 1.033E 02 1.072E 02 1.143E 02 1.218E 02 1.329E 02 1.436F 02 1.561E 02 1.561E 02 1.674E 02 1.790E 02 1.873E 02 1.970E 02 1.970E 02	1.224E 02 W (70E 01 1.4 H(8TU/W) 1.173E 02 1.174E 02 1.174E 02 1.179E 02 1.186E 02 1.204E 02 1.218E 02 1.227E 02 1.227E 02 1.249E 02 1.249E 02 1.249E 02 1.264E 02 1.264E 02 1.264E 02	5.124E 02 SAM CP 600JE 00 2. TT (R) 4.907E 02 4.901E 02 4.916E 02 5.005E 02 5.005E 02 5.007E 02 5.133E 02 5.174E 02 5.201E 02 5.201E 02 5.221E 02 5.291E 02 5.336E 02 5.367E 02	UADJ(FT/SEC) 9.845E 01 9.827E 01 9.829E 01 9.926E 01 1.005E 02 1.032E 02 1.071E 02 1.141E 02 1.215E 02 1.326E 02 1.432E 02 1.432E 02 1.4555E 02 1.782E 02 1.864E 02 1.955E 02 1.955E 02 1.960E 02
-1.360F-01 x(FT) 7.5165E P(FT) 2.310E-01 1.950E-01 1.805E-01 1.722F-01 1.6409-01 1.559E-01 1.296F-01 1.209F-01 1.175-01 1.031F-01 9.115E-02 7.890E-02 4.971E-02	2.051E 03 RS(FT) -01 1.9510E PT(PSF) 2.045E 03 2.045E 03 2.045F 03 2.046E 03 2.047E 03 2.047E 03 2.047E 03 2.047E 03 2.047E 03 2.047E 03 2.057E 03 2.076E 03 2.076E 03 2.076E 03	5.112E 02 ***J(#M**) -01 6.101* TS(R) 4.899F 02 4.998F 02 4.9954E 02 4.9954E 02 5.032E 02 5.02E 02 5.121F 02 5.124F 02 5.125E 02 5.28E 02 5.265E 02 5.366E 02 5.366E 02	7.459E-02 /SEC) PS(P8E-01 2.033 RMO(MM/FT3) 7.783E-02 7.768E-02 7.695E-02 7.632E-02 7.445E-02 7.445E-02 7.389E-02 7.394E-0 7.320E-04 7.293E-02 7.145E-02 7.145E-02 7.145E-02 7.165E-02	1.230E 02 SF) M 3E 03 2.89 UX(FT/SEC) 9.845E 01 9.829E 01 9.829E 01 1.0035E 02 1.033E 02 1.072E 02 1.143E 02 1.218E 02 1.329E 02 1.436F 02 1.561E 02 1.561E 02 1.674E 02 1.790E 02 1.873E 02 1.970E 02 1.970E 02	1.224E 02 W (70E 01 1.4 H(8TU/#) 1.173E 02 1.174E 02 1.174E 02 1.179E 02 1.186E 02 1.204E 02 1.217E 02 1.227E 02 1.237E 02 1.243E 02 1.243E 02 1.243E 02 1.243E 02 1.243E 02 1.255E 02 1.255E 02 1.264E 02 1.275E 02	5.124E 02 SAM CP OOUE 00 2. TT (R) 4.907E 02 4.907E 02 4.916E 02 5.005E 02 5.005E 02 5.017E 02 5.133E 02 5.174E 02 5.201E 02 5.221E 02 5.221E 02 5.236E 02 5.336E 02 5.336E 02 5.398E 02	UADJ(FT/SEC) 9.845E 01 9.827E 01 9.829E 01 9.926E 01 1.005E 02 1.032E 02 1.141E 02 1.215E 02 1.326E 02 1.432E 02 1.432E 02 1.5555E 02 1.667E 02 1.782E 02 1.925E 02 1.925E 02
-1.360F-01 X(FT) 7.5165E P(FT) 2.310E-01 1.950E-01 1.805E-01 1.6405-01 1.559E-01 1.385F-01 1.296F-01 1.209F-01 1.031F-01 7.890E-02 6.589F-02 4.971E-02 3.398E-02 1.477E-02	2.051E 03 RS(FT) -01 1.9510E PT(PSF) 2.045E 03 2.045E 03 2.045E 03 2.045E 03 2.045E 03 2.046E 03 2.047E 03 2.046E 03 2.050E 03 2.050E 03 2.050E 03 2.050E 03 2.050E 03 2.050E 03 2.075E 03 2.075E 03 2.075E 03 2.076E 03 2.076E 03	5.112E 02 WJ(WM -01 6.101 TS(R) 4.899F 02 4.998E 02 4.998E 02 4.954E 02 4.954E 02 5.032E 02 5.086E 02 5.159E 02 5.159E 02 5.28E 02 5.28E 02 5.265E 02 5.366E 02 5.375E 02 5.366E 02 5.366E 02	7.459E-02 /SEC! PS(P8E-01 2.033 RMO(#M/FT3) 7.783E-02 7.768E-02 7.695E-02 7.695E-02 7.695E-02 7.4596E-02 7.389E-02 7.389E-02 7.389E-02 7.389E-02 7.389E-02 7.184E-02 7.195E-02 7.105E-02 7.105E-02	1.230E 02 SF) M 3E 03 2.89 UX(FT/SEC) 9.845E 01 9.829E 01 1.005E 02 1.033E 02 1.072E 02 1.143E 02 1.218E 02 1.329E 02 1.436F 02 1.561E 02 1.561E 02 1.790E 02 1.873E 02 1.935E 02 1.935E 02 1.975E 02 1.971E 02	1.224E 02 W (70E 01 1.4 H(8TU/W) 1.173E 02 1.174E 02 1.179E 02 1.186E 02 1.204E 02 1.227E 02 1.227E 02 1.227E 02 1.243E 02 1.243E 02 1.249E 02 1.255E 02 1.264E 02 1.275E 02 1.275E 02 1.283E 02 1.290E 02 1.290E 02	5.124E 02 JAM CP OOUE 00 2. TT(R) 4.907E 02 4.916E 02 4.916E 02 4.963E 02 5.005E 02 5.042E 02 5.133E 02 5.174E 02 5.201E 02 5.216 02 5.251E 02 5.367E 02 5.398E 02 5.398E 02	UADJ(FT/SEC) 9.845E 01 9.827E 01 9.829E 01 9.926E 01 1.005E 02 1.071E 02 1.215E 02 1.326E 02 1.326E 02 1.432E 02 1.432E 02 1.432E 02 1.4555E 02 1.667E 02 1.782E 02 1.964E 02 1.955E 02 1.965E 02 1.965E 02
-1.360F-01 X(FT) 7.5165E P(FT) 2.310E-01 1.950E-01 1.805E-01 1.722F-01 1.640E-01 1.559E-01 1.559E-01 1.296E-01 1.296E-01 1.209F-01 1.031E-01 9.115E-02 7.890E-02 4.971E-02 3.398E-02 1.477E-02 -3.774E-03	2.051E 03 RS(FT) -01 1.9510E PT(PSF) 2.045E 03 2.046E 03 2.050E 03 2.056E 03 2.056E 03 2.056E 03 2.076E 03 2.076E 03 2.076E 03 2.076E 03 2.076E 03 2.076E 03	5.112E 02 ***J(#M**) **O1 6.101* **TS(R)** **4.899F 02 **4.998F 02 **4.998F 02 **4.996F 02 **5.032F 02 **5.121F 0	7.459E-02 /SEC) PS(P8E-01 2.033 RMO(MM/FT3) 7.783E-02 7.768E-02 7.695E-02 7.632E-02 7.577E-02 1.596E-02 7.354E-^1 7.320E-02 7.354E-02 7.165E-02 7.105E-02 7.105E-02 7.105E-02 1.099E-02	1.230E 02 SF) M 3E 03 2.89 UX(FT/SEC) 9.845E 01 9.829E 01 9.829E 01 1.005E 02 1.033E 02 1.072E 02 1.143E 02 1.218E 02 1.329E 02 1.436F 02 1.561E 02 1.561E 02 1.674E 02 1.873E 02 1.935E 02 1.979E 02 1.971E 02	1.224E 02 W (70E 01 1.4 H(8TU/#) 1.173E 02 1.174E 02 1.174E 02 1.179E 02 1.186E 02 1.204E 02 1.227E 02	5.124E 02 SAM CP 600JE 00 2. TT (R) 4.907E 02 4.916E 02 4.916E 02 5.005E 02 5.042E 02 5.07E 02 5.133E 02 5.174E 02 5.201E 02 5.201E 02 5.221E 02 5.221E 02 5.367E 02 5.367E 02 5.398E 02 5.398E 02 5.403E 02	UADJ(FT/SEC) 9.845E 01 9.827E 01 9.829E 01 9.926E 01 1.005E 02 1.071E 02 1.215E 02 1.326E 02 1.326E 02 1.432E 02 1.432E 02 1.432E 02 1.4555E 02 1.667E 02 1.782E 02 1.964E 02 1.955E 02 1.965E 02 1.965E 02
-1.360F-01 x(FT) 7.5165E P(FT) 2.310E-01 1.950E-01 1.805E-01 1.805E-01 1.559E-01 1.559E-01 1.296F-01 1.209F-01 1.031F-01 9.115E-02 7.890E-02 4.971E-02 3.398E-02 1.477F-02 -3.774E-03 -2.262E-02	2.051E 03 RS(FT) -01 1.9510E PT(PSF) 2.045E 03 2.045E 03 2.045E 03 2.045E 03 2.046E 03 2.046E 03 2.047E 03 2.057E 03 2.057E 03 2.057E 03 2.057E 03 2.076E 03	5.112E 02 ***J(#M**) **O1 6.101* **TS(R)** **4.899F 02 **4.998F 02 **4.997F 02 **4.997F 02 **5.184F 02 5.184F 02 5.184F 02 5.184F 02 5.28F 02 5.28F 02 5.265F 02 5.366F 02 5.375F 02 5.366F 02 5.376F 02 5.376F 02 5.376F 02	7.459E-02 /SEC) PS(P8E-01 2.033 RMO(WM/FT3) 7.783E-02 7.768E-02 7.695E-02 7.632E-02 7.445E-02 7.445E-02 7.354E- 7.320E-04 7.293E-02 7.145E-02 7.145E-02 7.105E-02 7.093E-02 7.093E-02 7.099E-02 7.111E-02	1.230E 02 SF) M 3E 03 2.89 UX(FT/SEC) 9.845E 01 9.829E 01 9.829E 01 1.005E 02 1.033E 02 1.072E 02 1.143E 02 1.218E 02 1.329E 02 1.436F 02 1.561E 02 1.561E 02 1.562 02 1.979E 02 1.979E 02 1.979E 02 1.971E 02 1.971E 02 1.971E 02 1.972E 02	1.224E 02 W	5.124E 02 SAM CP OOUE 00 2. TT (R) 4.907E 02 4.907E 02 4.916E 02 4.916E 02 5.005E 02 5.007E 02 5.174E 02 5.174E 02 5.201E 02 5.221E 02 5.221E 02 5.236E 02 5.251E 02	UADJ(FT/SEC) 9.845E 01 9.827E 01 9.829E 01 9.926E 01 1.005E 02 1.071E 02 1.215E 02 1.326E 02 1.326E 02 1.432E 02 1.432E 02 1.432E 02 1.4555E 02 1.667E 02 1.782E 02 1.964E 02 1.955E 02 1.965E 02 1.965E 02
-1.360F-01 x(FT) 7.5165E P(FT) 2.310E-01 2.132E-01 1.950E-01 1.805E-01 1.722F-01 1.6405-01 1.559E-01 1.296F-01 1.296F-01 1.209F-01 1.117E-01 9.115E-02 7.890E-02 4.971E-02 3.398E-02 1.477E-03 -2.262E-02 -4.163F-02	2.051E 03 RS(FT) -01 1.9510E PT(PSF) 2.045E 03 2.045E 03 2.045E 03 2.045F 03 2.046E 03 2.047E 03 2.047E 03 2.047E 03 2.047E 03 2.047E 03 2.057E 03 2.057E 03 2.057E 03 2.076E 03 2.077E 03	5.112E 02 WJ(WM -01 6.101) TS(R) 4.899F 02 4.908E 02 4.954E 02 4.954E 02 5.032E 02 5.032E 02 5.121F 02 5.159E 02 5.128F 02 5.228E 02 5.228E 02 5.228E 02 5.25E 02 5.366E 02 5.379E 02 5.366E 02 5.379E 02 5.366E 02 5.379E 02	7.459E-02 /SEC	1.230E 02 SF) M 3E 03 2.89 UX(FT/SEC) 9.845E 01 9.829E 01 9.829E 01 1.005E 02 1.033E 02 1.072E 02 1.143E 02 1.218E 02 1.329E 02 1.436F 02 1.561E 02 1.561E 02 1.674E 02 1.674E 02 1.979E 02 1.979E 02 1.971E 02 1.971E 02 1.971E 02 1.971E 02 1.973E 02	1.224E 02 W (70E 01 1.4 H(BTU/#) 1.173E 02 1.173E 02 1.174E 02 1.174E 02 1.179E 02 1.204E 02 1.227E 02 1.227E 02 1.227E 02 1.227E 02 1.227E 02 1.227E 02 1.229E 02	5.124E 02 JAM CP JOUR 00 2. TT (R) 4.907E 02 4.916E 02 4.916E 02 4.963E 02 5.005E 02 5.042E 02 5.07E 02 5.133E 02 5.174E 02 5.201E 02 5.21E 02 5.251E 02 5.251E 02 5.291E 02 5.291E 02 5.367E 02 5.367E 02 5.398E 02 5.398E 02 5.398E 02 5.398E 02 5.398E 02 5.394E 02 5.394E 02	UADJ(FT/SEC) 9.845E 01 9.827E 01 9.829E 01 9.926E 01 1.005E 02 1.071E 02 1.215E 02 1.326E 02 1.326E 02 1.432E 02 1.432E 02 1.432E 02 1.4555E 02 1.667E 02 1.782E 02 1.964E 02 1.955E 02 1.965E 02 1.965E 02
-1.360F-01 X(FT) 7.5165E P(FT) 2.310E-01 2.132E-01 1.950E-01 1.722F-01 1.640F-01 1.559E-01 1.971E-01 1.385F-01 1.296F-01 1.296F-01 1.299F-01 2.09F-01 2.09F-01 2.09F-01 2.09F-01 2.09F-01 2.03-08-02 4.971E-02 3.39RE-02 4.971E-02 -3.174E-03 -2.262E-02 -4.163F-02 -8.561E-02	2.051E 03 RS(FT) -01 1.9510E PT(PSF) 2.045E 03 2.045E 03 2.045E 03 2.045E 03 2.045E 03 2.045E 03 2.046E 03 2.046E 03 2.050E 03 2.050E 03 2.050E 03 2.050E 03 2.050E 03 2.075E 03 2.075E 03 2.075E 03 2.076E 03	5.11 2E 02 WJ (WM -01 6.101) TS (R) 4.899F 02 4.998E 02 4.998E 02 4.954E 02 4.954E 02 5.032E 02 5.086E 02 5.159E 02 5.159E 02 5.28E 02 5.265E 02 5.366E 02 5.370E 02 5.361E 02 5.361E 02 5.361E 02 5.361E 02 5.368E 02	7.459E-02 /SEC) PS(P8E-01 2.033 RMO(WM/FT3) 7.783E-02 7.788E-02 7.577E-02 7.577E-02 7.577E-02 7.354E-02 7.354E-02 7.354E-02 7.354E-02 7.165E-02 7.105E-02 7.105E-02 7.105E-02 7.105E-02 7.111E-02 7.238E-02 7.111E-02 7.238E-02	1.230E 02 SF) M 3E 03 2.89 UX(FT/SEC) 9.845E 01 9.829E 01 9.829E 01 1.0035E 02 1.072E 02 1.143E 02 1.218E 02 1.218E 02 1.329E 02 1.436F 02 1.561E 02 1.561E 02 1.674E 02 1.674E 02 1.975E 02 1.975E 02 1.975E 02 1.971E 02 1.971E 02 1.972E 02 1.973E 02 1.973E 02 1.971E 02 1.973E 02	1.224E 02 W (70E 01 1.4 H(8TU/#) 1.173E 02 1.173E 02 1.174E 02 1.179E 02 1.186E 02 1.204E 02 1.227E 02 1.227E 02 1.227E 02 1.225E 02 1.225E 02 1.225E 02 1.225E 02 1.229E 02	5.124E 02 SAM CP OOUE 00 2. TT(R) 4.907E 02 4.916E 02 4.916E 02 4.963E 02 5.005E 02 5.042E 02 5.07E 02 5.133E 02 5.21E 02 5.251E 02 5.367E 02 5.367E 02 5.367E 02 5.394E 02 5.394E 02 5.394E 02 5.394E 02 5.394E 02 5.394E 02	UADJ(FT/SEC) 9.845E 01 9.827E 01 9.829E 01 9.926E 01 1.005E 02 1.071E 02 1.215E 02 1.326E 02 1.326E 02 1.432E 02 1.432E 02 1.432E 02 1.4555E 02 1.667E 02 1.782E 02 1.964E 02 1.955E 02 1.965E 02 1.965E 02
-1.360F-01 X(FT) 7.5165E P(FT) 2.310E-01 1.950E-01 1.805E-01 1.559E-01 1.559E-01 1.296F-01 1.296F-01 1.031F-01 9.115E-02 7.890E-02 4.971E-02 3.398E-02 4.971E-02 3.3774E-03 -2.262E-02 -4.163F-02 -8.561E-02 -8.561E-02 -1.009F-01	2.051E 03 RS(FT) -01 1.9510E PT(PSF) 2.045E 03 2.050E 03 2.054E 03 2.055E 03 2.055E 03 2.056E 03 2.075E 03 2.076E 03 2.077E 03 2.077E 03 2.077E 03 2.077E 03 2.077E 03	5.112E 02 ***J(#M**) **O1 6.101* **TS(R)** **4.899F 02 **4.998F 02 **4.998F 02 **4.996F 02 **5.032F 02 **5.121F 02 **5.121F 02 **5.121F 02 **5.121F 02 **5.28F 02 **5.265F 02 **5.307F 02 **5.336F 02 **5.366F 02	7.459E-02 /SEC) PS(P8E-01 2.033 RMO(MM/FT3) 7.783E-02 7.768E-02 7.695E-02 7.695E-02 7.632E-02 7.445E-02 7.389E-02 7.394E-02 7.320E-02 7.105E-02 7.238E-02 7.238E-02 7.300E-02	1.230E 02 SF) M 3E 03 2.89 UX(FT/SEC) 9.845E 01 9.829E 01 9.829E 01 1.005E 02 1.033E 02 1.072E 02 1.143E 02 1.218E 02 1.329E 02 1.436F 02 1.561E 02 1.561E 02 1.674E 02 1.979E 02 1.979E 02 1.971E 02 1.971E 02 1.971E 02 1.972E 02 1.973E 02 1.971E 02 1.972E 02 1.972E 02 1.973E 02 1.973E 02 1.971E 02 1.972E 02 1.973E 02	1.224E 02 W	5.124E 02 SAM CP OOJE 00 2. TT (R) 4.907E 02 4.907E 02 4.916E 02 4.935E 02 5.005E 02 5.005E 02 5.133E 02 5.174E 02 5.201E 02 5.221E 02 5.221E 02 5.221E 02 5.236E 02 5.336E 02 5.396E 02 5.398E 02 5.398E 02 5.394E 02 5.394E 02 5.394E 02 5.394E 02 5.246E 02	UADJ(FT/SEC) 9.845E 01 9.827E 01 9.829E 01 9.926E 01 1.005E 02 1.071E 02 1.215E 02 1.326E 02 1.326E 02 1.432E 02 1.432E 02 1.432E 02 1.4555E 02 1.667E 02 1.782E 02 1.964E 02 1.955E 02 1.965E 02 1.965E 02
-1.360F-01 X(FT) 7.5165E P(FT) 2.310E-01 2.132E-01 1.950E-01 1.722F-01 1.640F-01 1.559E-01 1.971E-01 1.385F-01 1.296F-01 1.296F-01 1.299F-01 2.09F-01 2.09F-01 2.09F-01 2.09F-01 2.09F-01 2.03-08-02 4.971E-02 3.39RE-02 4.971E-02 -3.174E-03 -2.262E-02 -4.163F-02 -8.561E-02	2.051E 03 RS(FT) -01 1.9510E PT(PSF) 2.045E 03 2.050E 03 2.054E 03 2.056E 03 2.056E 03 2.075E 03 2.076E 03 2.077E 03 2.077E 03 2.077E 03 2.077E 03 2.077E 03 2.077E 03	5.11 2E 02 WJ (WM -01 6.101) TS (R) 4.899F 02 4.998E 02 4.998E 02 4.954E 02 4.954E 02 5.032E 02 5.086E 02 5.159E 02 5.159E 02 5.28E 02 5.265E 02 5.366E 02 5.370E 02 5.361E 02 5.361E 02 5.361E 02 5.361E 02 5.368E 02	7.459E-02 /SEC) PS(P8E-01 2.033 RMO(WM/FT3) 7.783E-02 7.788E-02 7.577E-02 7.577E-02 7.577E-02 7.354E-02 7.354E-02 7.354E-02 7.354E-02 7.165E-02 7.105E-02 7.105E-02 7.105E-02 7.105E-02 7.111E-02 7.238E-02 7.111E-02 7.238E-02	1.230E 02 SF) M 3E 03 2.89 UX(FT/SEC) 9.845E 01 9.829E 01 9.829E 01 1.0035E 02 1.072E 02 1.143E 02 1.218E 02 1.218E 02 1.329E 02 1.436F 02 1.561E 02 1.561E 02 1.674E 02 1.674E 02 1.975E 02 1.975E 02 1.975E 02 1.971E 02 1.971E 02 1.972E 02 1.973E 02 1.973E 02 1.971E 02 1.973E 02	1.224E 02 W (70E 01 1.4 H(8TU/#) 1.173E 02 1.173E 02 1.174E 02 1.179E 02 1.186E 02 1.204E 02 1.227E 02 1.227E 02 1.227E 02 1.225E 02 1.225E 02 1.225E 02 1.225E 02 1.229E 02	5.124E 02 SAM CP OOUE 00 2. TT(R) 4.907E 02 4.916E 02 4.916E 02 4.963E 02 5.005E 02 5.042E 02 5.07E 02 5.133E 02 5.21E 02 5.251E 02 5.367E 02 5.367E 02 5.367E 02 5.394E 02	UADJ(FT/SEC) 9.845E 01 9.827E 01 9.829E 01 9.926E 01 1.005E 02 1.071E 02 1.215E 02 1.326E 02 1.326E 02 1.432E 02 1.432E 02 1.432E 02 1.4555E 02 1.667E 02 1.782E 02 1.964E 02 1.955E 02 1.965E 02 1.965E 02
-1.360F-01 X(FT) 7.5165E P(FT) 2.310E-01 1.950E-01 1.805E-01 1.559E-01 1.559E-01 1.296F-01 1.296F-01 1.031F-01 9.115E-02 7.890E-02 4.971E-02 3.398E-02 4.971E-02 3.3774E-03 -2.262E-02 -4.163F-02 -8.561E-02 -8.561E-02 -1.009F-01	2.051E 03 RS(FT) -01 1.9510E PT(PSF) 2.045E 03 2.045E 03 2.045E 03 2.045E 03 2.045E 03 2.046E 03 2.047E 03 2.050E 02 2.054E 03 2.057E 03 2.056E 03 2.073E 03 2.073E 03 2.076E 03	5.112E 02 ***J(#M**) **O1 6.101* **TS(R)** **4.899F 02 **4.998F 02 **4.998F 02 **4.998F 02 **5.184F 02 5.184F 02 5.184F 02 5.28F 02 5.26F 02 5.366F 02 5.375E 02 5.366F 02 5.375E 02 5.366F 02 5.370F 02 5.366F 02 5.370F 02 5.366F 02 5.370F 02 5.366F 02 5.370F 02	7.459E-02 /SEC) PS(P8E-01 2.033 RMO(WM/FT3) 7.783E-02 7.768E-02 7.695E-02 7.695E-02 7.695E-02 7.445E-02 7.445E-02 7.389E-02 7.345E-02 7.320E-04 7.320E-04 7.105E-02 7.105E-02 7.093E-02 7.105E-02 7.093E-02 7.111E-02 7.311E-02 7.314E-02 7.330E-02 7.311E-02 7.3348E-02 7.343E-02	1.230E 02 SF) M 3E 03 2.89 UX(FT/SEC) 9.845E 01 9.829E 01 9.829E 01 1.005E 02 1.033E 02 1.072E 02 1.143E 02 1.218E 02 1.329E 02 1.436F 02 1.561E 02 1.561E 02 1.674E 02 1.979E 02 1.979E 02 1.971E 02 1.971E 02 1.971E 02 1.972E 02 1.973E 02 1.971E 02 1.972E 02 1.972E 02 1.973E 02 1.973E 02 1.971E 02 1.972E 02 1.973E 02	1.224E 02 W	5.124E 02 SAM CP OOJE 00 2. TT (R) 4.907E 02 4.907E 02 4.916E 02 4.935E 02 5.005E 02 5.005E 02 5.133E 02 5.174E 02 5.201E 02 5.221E 02 5.221E 02 5.221E 02 5.236E 02 5.336E 02 5.396E 02 5.398E 02 5.398E 02 5.394E 02 5.394E 02 5.394E 02 5.394E 02 5.246E 02	UADJ(FT/SEC) 9.845E 01 9.845E 01 9.827E 01 9.829E 01 9.926E 01 1.005E 02 1.032E 02 1.141E 02 1.215E 02 1.215E 02 1.432E 02 1.432E 02 1.467E 02 1.782E 02 1.964E 02 1.955E 02 1.964E 02
-1.360F-01 x(FT) 7.5165E P(FT) 2.310E-01 2.132E-01 1.950E-01 1.805E-01 1.805E-01 1.559E-01 1.559E-01 1.296F-01 1.209F-01 1.117E-01 1.031F-01 9.115E-02 7.890E-02 6.589F-02 4.971E-02 3.398C-02 1.477E-02 -3.774E-03 -2.262E-02 -4.163F-02 -1.009F-01 -1.161E-01	2.051E 03 RS(FT) -01 1.9510E PT(PSF) 2.045E 03 2.045E 03 2.045E 03 2.045F 03 2.045F 03 2.046E 03 2.047E 03 2.057E 03 2.057E 03 2.057E 03 2.057E 03 2.075E 03 2.075E 03 2.076E 03	5.112E 02 ***J(#M**) **O1 6.101* **TS(R)** **4.899F 02 **4.998F 02 **4.998F 02 **4.998F 02 **5.184F 02 5.184F 02 5.184F 02 5.28F 02 5.26F 02 5.366F 02 5.375E 02 5.366F 02 5.375E 02 5.366F 02 5.370F 02 5.366F 02 5.370F 02 5.366F 02 5.370F 02 5.366F 02 5.370F 02	7.459E-02 /SEC	1.230E 02 SF) M 3E 03 2.89 UX(FT/SEC) 9.845E 01 9.829E 01 9.829E 01 1.005E 02 1.033E 02 1.072E 02 1.143E 02 1.218E 02 1.329E 02 1.434E 02 1.561E 02 1.561E 02 1.979E 02 1.979E 02 1.971E 02 1.973E 02	1.224E 02 W	5.124E 02 JAM CP OOJE 00 2. TT (R) 4.907E 02 4.907E 02 4.916E 02 4.916E 02 5.005E 02 5.042E 02 5.07E 02 5.133E 02 5.174E 02 5.201E 02 5.221E 02 5.251E 02	UADJ(FT/SEC) 9.845E 01 9.845E 01 9.827E 01 9.829E 01 9.926E 01 1.005E 02 1.032E 02 1.141E 02 1.215E 02 1.215E 02 1.432E 02 1.432E 02 1.467E 02 1.782E 02 1.964E 02 1.955E 02 1.964E 02

^{*}THESE DATA ARE NOT PRESENTED IN ANY FIGURES IN THE PRESENT REPORT

X(FT)		RS	(FT)		WJ	(#M	/SEC)	P:	SIPS	F)	- 1	4W		(GAM	Cf	>{8TU/#R})
8.734ZE-	-01	2.0	241E	-01	6.	085	7E-01	2.0	333	E Q3	2.89	70E	01	1.4	+000E 00	2.	4000E-01	l.
R(FT)		(PSF			(ن د						/SEC				TTER		UADJ(F1	
2.360E-01		045E				02					E 01		78E		4.930E		9.797E	
2.162E-01		045E					<u> 7.7</u>					لمل						
1.959E-01	2.	045E	03	4.9	31E	02	7.7	31E-(20	9.968	16 OL	1.7			4.94JE	02	9.8698	01
1.8235-01		045E			5 5E			95E-(E 02		186 E		4.963E		9.930E	
1.688E-01		046E			OOE			25E-0			56 95				5-009E		1.026E	
1.557E-01		048E		5.0			7.5	23E-(20 3				5.078E		1.097E	.92
1.464E-01	2.	049E	03	5.1	08E	02	7.4	64E-(2	1.17	E 02	1.2	223E	02	5.120E	ΟZ	1.163E	02
1.369E-01		052E					7.4				E 02							
1.275E-01		0558			72E		7.3				E 02				5.188E		1.359E	
1.1786-01				5.2				24E-()E 02						1.475E	
1.082E-01	2.	062E	C3	5.2	16E	02	7.3	09E-0)2	1.590	E 02	1.2	252E	02	5.237E	02	1.586E	02
9.864E-02	2.	066E	Q3	5.2	45E	Q2		69E-(1.696	SE 02	1.7	259E	02	5.269E	92	1.693E	02
8.6846-02	2.	970E	03	5.2	78E	02	7.2	24E-(02	1.80	E 02	1.2	268E	02	5.305E	02	1.CO0E	02
7.278E-02	_2.	073E	03					73 E-)2	1.887	E 02	أمل	78E	02			1.886E	02
5.811E-02		075E				02		16E-0			E 02		288E		5.389E		1.940E	
4.253E-02	2.	076E	. 03	5.3	75E	92		93E-(1.963	E 02				5-407E		1, 9,63E	02
2.680E-02	2.	076E	03	5.3	79E	02	7.0	67E-(02	1.960	DE 02	1.2	293E	02	5-411E	02	1.960E	02
1.107E-Q2	2.	076E	Q3	5.3	84E	02	7.0	82E-	32	1.962	E QZ	1.2	294E	92	5.416E	02	1.9628	92
-4.745E-03	2.	0765	03	5.3	79E	02	7.0	87E-6	02	1.964	E 02	1.2	294E	02	5.411E	02		
-2.060E-02	_2.	076E	03	_5_3	79E	02	7.0	87E-	02	1.964	E 02	أمل	94E	02	5.411E	02		
-3.646E-02	2.	G 76 E	03	5.3	716	02	7.0	99E-(02	1.963	SE 02	1.2	291 E	02	5-403E	92		
-5.262E-02	2.	Q76E	_03	5.3	53E	.92	7.1	22E-(02	1.950	E 02	1.2	287E	02	5.385E	.02		
-6.818E-02	2.	074E	03	5.3	23E	02	7.1	62E-(20	1.917	7E 02	1.2	279E	02	5.354E	02		
-9.96QE-Q2	2.	065E	. 93	5.2	416	.02	7.2	745-0	02	1.670	E 02	1.2	258 E	02	5.254E	_02	<u>.</u> .	
~1.161E-01	2.	059E	03	5.1	96E	02	7.3	37E~(02	1.489	DE 02	1.2	246E	02	5.215E	02		
-1.316E-01	2.	053E	03	5.1	60E	02	7.3	89E-1	02	1.31	E 02	تعل	37E	02	5.174E	02		
-1.372F-01	2.	051E	03	5-1	30E	02	7.4	33E-0	2	1.243	SE 02	1.2	29E	02	5.142E	02		
X(FT)		RS(FT)		иJ (#M/	SEC)	PS	(PSF	: }		W			AM .		(BTU/#R)	
1.0024F	00	2.10) 1 SE -	- 01	6.0	738	F-01	2.0	3338	03	2.89	70 E	01	1.4	000E 00	2.	4000E-01	
R(FT)	PT(PSF))		(R)						/SEC)				TT (R)		UADJ(FT	
2.5555-01	2.0	145F	03	1.94	41E	02	7.7	7E-0	2 9	9.924	E 01				4.949E			
2.3535-01	2.0	455	03				7.71			.879			83E				9.7.79E	01
2.1685-01		45E		4.9				0-35C		842			85 E		4.958E	02	9.742E	01 T
2 24 25 21																		

X(FT)	RS(FT)	M#) UN	/SEC) PS(F	PSF)	мм	GAM	CP(BTU/#R)
1.0024F	00 2.1015	-01 6.073	8F-01 2.033	336 03 2.8	970E 01 1	L.4000E 00	2.4000E-01
R(FT)	PT(PSF)	TS(K)	RHO(#M/FT3)				
2.5555-01	2.045F 03		7.717E-02				
2.3535-01	2.0455 03		7.7165-02		1.183E (02 9.779E 01
	2.045E 03		7.7026-02				
2.0425-01			7.702F-02				
	2.045E 03		7.680E-02		1 188E (
1.7975-01	2.046E 03	5.005E U2	7.617E-02	1.020E 02	1.198E (02 5.014E	
1.6675-01	2.047F 03	5.0415 02	7.563E-02				
1.5464-01	2.0485 03	5.1095 02	7.463E-02	1.1298 02	1.2238		02 1.119E 02
1.4215-01	2.0515 03	5.157F 02	7.393E-02	1.2308 02	1.235E	02 5.170E	02 1.220E 02
1.2925-01	2.054E 03	5-1915 02	7.345E-02	1.355E 02	1.244E (02 5.206E	02 1.345E 02
1.1515-01	2.059E 03	5.2235 02	7.300E-02	1.513€ 02	1.253E (02 5.242E	02 1.503E 02
1.0065-01	2.0655 03	5.259F 02	7.249F-02	1.6648 02	1.263E (02 5.282E	92 1.654E 02
8.4595-02	2.070F 03	5.296F 02	7.200E-02	1.804E 02	1.2728	02 5.323E	02 1.794E 02
6.3955-02	2.0736 03	5.342F 02	7,137E-02	1.889F 02	1.284E (02. 5.372E.	02 1.879E 02
5.297F-02	2.075E 03	5.376E 02	7.0926-02	1.943E 02	1.292E (02 5.407E	02 1.933E 02
3.619F-02	2.076E 03	5.397E 02	7.0648-02	1.968E 02	1.298E (02 5.429E	02 1.958E 02
2.0617-02	2.076F 03	5.401E 02	7.059E-02	1.9678 02	1.299E	02 5.433E	02 1.957E 02
4.7284-03	2.076F 03	5.4065 02	7.053F-02	1.970E 02	1.2998	02 5.438E	02 1.960E 02
-1.1614-02	2.076E 03	5.401F 02	7.059E-02	1.966E 02	1.299E (02 5.433E	02
-2.747E-02	2.076E U3_	_ 5.397F.Q2	7.065F-02.	1.97QE Q2	1.298E	02 5.429E	02
-4.333F-02	2.076E 03	5.3845 02	7.0816-02	1.958E 02	1.294E (02 5.416E	02
-5.8895-02	2.075E 03	5.354F 02	7.121E-02	1.930F 02	1.287E (02 5.385E	02
-7.460F-02	2.072E 03	5.316F 02	7.172F-02	1.862E 02	1.2786	02 5.345E	02
-9.046F-02	2.068E 03	5.275 02	7.2285-02	1.7465 02	1.267E	02 5.300E	02
-1.0665-01	2.062F 03	5.243F 02	7.271E-02	1.591E 02	1.258E (02 5.264E	02
-1.245E-01	2.056E 03	5.194E 02	7.2505-02	1.397E 02	1.245 E_S	02 5.210E	02
-1.349F-01	2.0535 63	5.165E 02	7.382E-02	1.2946 02	1.238E (02 5.179E	02

*THESE DATA ARE NOT PRESENTED IN ANY FIGURES IN THE PRESENT REPORT

AEDC-TR-75-54

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CPTBTU/LAT
    x(FT) PS(FT) #J(#M/SFC) PS(PSF) MW GAM CPTBTU/ART
8.6449F-03 1.7069E-01 3.068IF-01 2.0419E 03 2.897UF 01 1.4000E UO 2.4000E-01
                            TS(R)
                                       RHO(#M/FT3) UX(FT/SEC)
                                                                  H(ATU/#)
                                                                                           UADJ(FT/SEC)
              2.053F 03 4.681F 02 8.179E-02
2.053E 03 4.677F 02 8.187F-02
  7.4475-01
                                                    9.481F 01 1.120F 02
9.457E 01 1.119F 02
                                                                              4.689E 02
  2.1635-01
                                                                              4.684E 02
  1.8695-01
              2.053F 33
                           4.677F 02
                                       8.187E-02
                                                    9.457F 01 1.119E 02
                                                                              4.684E
                                                                                      02
              2.053F 03
                                       8.1955-02
8.187E-02
                                                    9.463E 01 1.118E 02
9.403° 01 1.119E 02
  1.6665-01
                           4.672F 02
                                                                              4.679F 02
  1.5375-01
              2.053F 03
                           4.677F 32
                                                                              4.684E 02
  1.4615-01
              2.053 03
                           4.6925 02
                                       8.178E-02
                                                    9.375E 01 1.121E 02
                                                                              4.689E 02
                           4.696F 02
                                                    9.195F 01 1.124E 02
                                                                              4.703E 02
  1.4195-01
              2.053F 03
                                       8.1536-02
                                                    9.070F 01 1.128E 02
8.677E 01 1.134E 02
                                                                              4.718E 02
4.746E 02
  1.3825-01
              2.052F 03
                           4.7110 02
                                       8.1285-02
                           4.740- 02
                                       5.077F-02
  1.34AF-31
              2.051 03
  1.304F-01
              2.050- 03
                           4.817F 03
                                                    7.931F 01 1.152E 02
                                        7.9485-02
                                                                              4.822E 02
  1.2695-01
                           4.944E 02
              2.049F 03
                                        7.744E-02
                                                     7.518F 01 1.183E 02
                                                                              4.949E
                                       7.587E-02
7.513F-02
  1.2295-01
              2.0485 33
                           5.946E 92
                                                    7.461F 01 1.207E 02
                                                                              5.051E 02
              2.0495 03
  1.1905-01
                           5.096F 02
                                                    8.013F 01 1.219E 02
                                                                              5.101E 02
                                                                 1.227E 02
1.228E 02
              2.050F 03
2.051F 03
                                                    8.339E 01
  1.1495-01
                           5-127F 02
                                        7.467E-02
                                                                              5.133E 02
  1.1095-31
                           5.132F 02
                                       7.461E-02
                                                                              5.138E 02
               2.051 03
  1.074F-01
                           5.140° 02
                                        7.448E-02
                                                    8.7955 01 1.2306 02
                                                                              5.147E 02
                           5.158F 02
5.180F 02
              2.052F 03
  9.635F-02
                                       7.423E-02
                                                    9.3185 01 1.2346 02
                                                                              5.165E 02
                                        7.392F-02
  7.5?15-02
              2.053€ 03
                                                     9.719F 01 1.240E 02
                                                                              5.188E 0?
  4.769F-02
              2.3535 03
                           5.175F 02
                                       7.3985-02
                                                     9.689E 01
                                                                1.239E 02
                                                                              5-183E
                                                                                      02
                                       7.385E-02
  2.031F-02
               2.753F 03
                           5.185E 02
                                                    9.653F 01 1.241E 02
9.634E 01 1.239E 02
                                                                              5.192E 02
-7.218F-03
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                           5.176E 02
                                       7.398E-02
                                                                              5.183F
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-3.501E-02
              2.053F 03
                           5.180F 02
                                       7.391F-02
                                                                1.239E 02
                                                     9-664F 01
                                                                              5-188E 02
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               2.053F 03
                           5.180E 02
                                       7.392E-02
                                                     9.715E 01
                                                                 1.239E 02
                                                                              5.188E
                           5.167E 02
5.153F 02
 -8.170F-02
               2.0538 03
                                       7.4115-02
                                                     9.603E 01 1.237E 02
                                                                              5.174E
                                                                                      02
-9.357F-02
                                       7.430E-02
                                                                              5.161E 02
5.147E 02
              2.652F 03
                                                    9.295F 01 1.234E 02
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                           5.141F 02
              2.051£ 03
                                                     8.776F 01
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                                       7.4615-02
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-1.108--01
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              2.050 03
                           5.100F 02
5.051F 02
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5.655E 02
-1.1635-01
                                                     8.071E 01 1.220E 02
                                       7.581F-02
7.707E-02
              2.049F 03
 -1.2089-01
                                                     7.511E 01 1.208E 02
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                           4.968F 02
                                                     7.205E 01
                                                                 1.188E 02
                                                                              4.972E
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              2.048E 03
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              2.049E 03
                           4.812F 02 7.956E-02
                                                    7.826E 01 1.151E 02
                                                                              4.818E 02
                                                                              4.675E 02
-1.575F-01 2.053E 03 4.667F 02 8.204E-02 9.447E 01 1.117E 02 4.675E 02 -1.872F-01 2.053E 03 4.667F 02 8.212E-02 9.482F 01 1.116E 02 4.670E 02
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                                HJ (#M/SCC)
                                                                                       CDIATU/#R1
    1.3270F-01 1.8062F-01 3.0837E-01 2.0419E 03 2.8970E 01 1.4000E 00 2.4000E-01
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                                       RHO(#4/FT3) UX(FT/SEC)
                                                                  H(BTU/#)
                                                                                           UADJ(FT/SEC)
                                                    9.0716 01 1.1246 02
9.11/6 01 1.1245 02
  2.234F-01
              2.052F 03
2.052F 03
                           4.696F 02 8.152F-02
4.696F 02 8.153=-02
                                                                              4.703E 02
  1.950F-01
                                                                              →.703E 02
  1.669F-01
               2.052F 03
                           4.696F 02
                                        3.152F-02
                                                     9.080F 01 1.124E 02
                                                                               4.703E
  1.5825-01
               2.052F 03
                           4.701F 02
                                        9.144F-02
                                                     9.070E 01 1.125E 02
                                                                              4.708E 02
                           4.725F 02
4.754F 02
  1.4925-01
               2.0525 03
                                        8.103E-02
                                                                              4.732E 02
                                                     9.024E 01 1.131E 02
                                                    8.949E 01 1.138E 02
8.830F 01 1.146E 02
  1.453F-01
               2.052F J3
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                                        8.0546-02
  1.4136-01
               2.052F 03
                           4.7875 02
                                        7.9985-02
                                                                               4.794E
  1.3745-01
                                                    8.608F 01 1.153E 02
8.362F 01 1.160E 02
8.080E 01 1.167F 02
               2.3515 03
                           4.821 02
                                        7.942F-02
                                                                              4.827E 02
              2.051F 33
                           4.849F 02
                                       7.895F-02
  T-340F-01
                                                                              4.855E 02
  1.2985-01
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               2.0505 03
                           4.887E 02
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2.050£ 03
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                            4.906F 02
                                        7.804E-02
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  1.2245-31
                           4.939F 02
                                       7.752E-02
                                                     7.932E 01 1.181E 02
                                                                               4.944E 02
                                                     7.997E 01 1.192E 02
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              2.0506 03
                           4.981F 02
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                                        7.6815-02
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                                        7.645E-02
                                                     8.259F 01 1.198E
  1.1535-01
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  1.048F-01
               2.0518 03
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                                                     8.876F 01 1.223E 02
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2.053F 03
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9.604E 01 1.241E 02
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               2.053 33
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               2.0535 03
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                                        7.3855-02
                                                     9.6965 01 1.2415 02
                                                                               5.192E
                                                                                      02
 -3.440F-03
                           5.185° 02
5.180° 02
                                        7.385F-02
              2.053E 03
2.053E 03
                                                     9.690F 01 1.241E 02
9.689F 01 1.240F 02
                                                                               5.192E 02
-2.909 -02
                                                                               5. 188E 02
                                        7-391F-02
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               2.0535 03
                           5.180F 02
                                                     9.7195 01
                                                                 1.240E 02
                                        7.392F-02
                                                                               5.188E
                                                                                      02
                           5.180F 02
5.171F 02
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               2.053F 03
                                        7.392F-02
                                                     9.7165 01
                                                                  1.240 E 02
                                                                               5.188E 02
                                        7.4045-02
               2.0535 03
                                                     9.635E 01 1.238E 02
9.399E 01 1.234E 02
                                                                               5.179F 02
 -8.899F-02
               2.3525 03
                           5.1538 02
                                        7.423E-02
                                                                               5.165E 02
                                                     8.941F 01 1.223E 02
8.784E 01 1.219F 02
               2.0515 03
2.0515 03
 -1.0145-01
                            5.113F
                                        7.4885-02
                                                                               5.120E
 -1.0575-01
                                        7.5155-02
7.576=-02
                                                                                      02
                            5.095F 02
                                                                               5.101E
 -1-090F-01
                           5.054F 02
                                                     8.547E 01 1.209E 02
8.339E 01 1.199E 02
               2.051E 03
                                                                               5.060E 02
 -1.130F-01
               2.050
                       03
                            5.013F 02
                                        7.638 -- 02
                                                                               5.019E 02
               2.050 03
                                                     8.093F 01
                                        7.680F-02
 -1.171F-01
                            4.985E 02
                                                                 1.193E
                                                                               4.391E 02
 -1.208F-01
               2.050 03
                           4.944F 02
                                        7.745F-02
                                                     7.992E 01
                                                                  1.183F 02
                                                                               4.949E 02
                                        7.796F-02
 -1-2495-01
               2.050E 03
                           4.9115 02
                                                     8.022F 01 1.175F 02
                                                                               4.916E 02
               2.050F 03
                           4.878F 02
 -1.2875-01
                                        7.8495-02
                                                     8.1047 01
                                                                  1.167E 02
                                                                               4.883E
                                                                                      02
                           4.835F 02
               2.051F 03
                                        7.9195-02
                                                     8.462ê 01 1.156E
                                                                               4.841E
```

		-					
X(FT)	RS(FT	M#) LW (/SFC) PS	(PSF)	1W (SAM C	P(BTU/BR)
2.5947F	-01 1.9376	E-01 3.111	BE-01 2.04	419E 03 2.89	70E 01 1.4	1000E 00 2	.4000E-01
P(FT)	PT(PSF)	TS(9)	PHO! MM/FT	3) UX(FT/SECi	H(BTU/#)	TT(R)	UADJ(FT/SEC
	2.0525 03				1.126E 02		04001117000
2.284F-01					1.126E 02		
	2.0525 03				1.127E 02		
1.892F-01					1.127E 02		
1.6925-01					1.129E 02		
1.5715-01					1.135E 02		
	2.052= 03		8.014E-0		1.143E 02		
1.440F-01	2.051F 03	4.811F 02	7.958E-0	2 8.685+ 01	1.151E 02	4.818E 02	
1.377F-01	2.051F 03	4.849E 02	7.8955-0	8.461F 01	1.1605 02	4.855E 02	
1.340F-01	2.050 03	4.8735 02	7.857¢-0	2 8.319E 01	1.166E 02	4.879E 02	
1.303F-01	2.0505 03	4.897F 02	7.8196-02	2 8.238E 01	1.1728 02	4.902E 02	
1.266°-01	2.050F J3	4.925E 02	7.7756-0	2 8.2100 01	1.178E 02	4.930E 02	
1.229F-01	2.050€ 03	4.948F C2	7.7385-02	2 8.233F 01	1.184E 02	4.954E 02	
1.1925~01	2.050E 03	4.976E 02	7.695E-0	2 3.297E 01	1.1902 02	4.981E 02	
1.157F-31	2.050F 03	4.999F 02	7.6598-02	8.398E 01	1.196E 02	5.005E 02	
1.1085-01	2.051E 03	5.031F 02	7.6116-02	2 8.5825 01	1.204E 02	5.037E 02	
1.071F-01	2.0515 03	5.058E 02	7.569E-0	2 8.7976 01	1.210E 0Ž	5.065E 02	
9.3995-02				2 9.354E 01	1.229E 02	5.142E 02	
8.1365-02					1.238E 02		
6.8475-02					1.241E 02		
	~~2.053F~03			2 9.710E 01	1.242E 02		
	2.053E 03				1.242E 02		
2.328F-02					1.242E 02		
	2.053F 03			2 9.669E 01	1.241E 02	5.19ZE 02	
-1.585F-02				2 9.684E 01	1.241E 02		
-3.501F-02					1.241E 02	5.192E 02	
-5.4445-02					1.241E 02		
	2.053F 03			2 9.765E 01	1.240E 02		
	2.052F 03					5.124E 02	
	2.050F 03				1.193E 02		
	2.051E 03			2 8.66 E 01	1.1636 02		
-1.513E-01					1.136E 02		
-1.6358-01	2.053E 03	4.715E 02	8.120F-0	2 9.49CE 01	1.129E 02	4.7226 02	

X(FT)	25(HJ (K)	47SEC 1	PS(PSFI	Mi	1	GAM		CP(BTU/#R)
3.8727E-	JI 2.00	98E-01	3.08	036-01	2.04	19E 03	2.89	70 E 01	1.4000	E 00	2.4000E-01
R(FT)	FT(PSF)	T	S(R)	RHOT	#M/FT3	UX(FT	/SECS	H(BTU/		TT(R)	UADJEFT/SEC
	2.053F		10E 0		28F-02	9.354		1.128E		718E	
2.126°-01	2.053F		715E 0		20E-02	9.332		1.128E		722E	
1.5615-27	-053F		11 5F 0		20E-02	9.315		1.129E		722E	
1.711E-01	2.053E	03 4.	13 OF 0	8.0	95F-02	9.320	E 01	1.131E		737E	
1.621F-01	2.053F		744E 0		71E-02	9.270		1.135E		751E	
1.5215-01	2.052E	03 4.	777E 0	8.0	14E-02	9.146	E 01	1.143E	02 4.	784E	02
1.427F-01	2.052E	03 4.1	330E 0	7.9	27E-02	8.928	F 01	1.156E	02 4.	836E	202
1.334F-01	2.051E	03 4.	377F 0	2 7.8	50F-02	8.617	E 01	1.1678	02 4.	883E	02
1.240F-01	2.051E		724F 0		75E-02	8.440		1.178E		730E	
1.153F-01	2.051E		989E 02		74E-02	8.499		1.194E		995E	
1.056F-01	2.051F		144E 0		90F-02	8.782		1.207E		OSIE	
9.635F-02	2.052E		090E 0		22E-02	9.115		1.218E		097E	
8.715F-02	2.052E		40E 0		20F-05	9.388		1.230E		147E	
6.900F-02	2.053E		189E 0		78E-02	9.602		1.242E		197E	
5.085F-02	2.052E		98E 0		85F=45	9.570		1.244E		206E	
3.245F-02	2.052E		198F 0		65E-02	9.567		1.244E		206E	
1.3026-02	2.052E		203E 0		59E-02			1.246E		210E	
-6.139F-03	2.052E		203E 0		59E-02	104.		1.245E		210E	
-2.476F-02 -4.284F-02	2.052E		198E 0		65E-02	9.526		1.244E		206E	
-6.173F-02	2.052E		194E 0		72E-02 85E-02	9.563 9.592		1.2436		201E	
-8-116F-02	2.052E		149E 0		36E-02	9.392		1.241E 1.232E		192E	
-1-001E-01	2.051E		063E 0		63E-02	8.819		1.2116		069E	
-1.187F-01			957€ O		24E-02	8.354		1.186E		.963E	
-1.381F-01			84 9E 0		96F-02	8.694		1.160E		855E	
-1.573F-01			763E 0		38E -02	9.150		1.139E		770E	
-1-762F-01	2.053E		720E 0		12E-02			1.129E		727E	

X(FT)	RS(FT)	NJ (#M)	"S(C)" PS(P	<u> </u>	MW	GAM	CP (BTU/#R)
5.08 80F-					970E 01	1.4000E 00	
R(FT)	PT(PSF)	TS(R)	RHO(WM/FT3)				
2.605F-01 2.226F-01	2.053F 03	4.71 OF 02	8.128F-02	9.325E 01			
		4.715F G2	8.1206-02	9.3396 01			
TOWNE-OI			8.117F-02				
1.7325-01	2.0536 03	4-739E 02	8.0795-02				
1.6165-01		4.754E 02	8.054F-02	9.194E 01			
1.500F-01	2.05 2E 03	4.801F 02	7.975E-02	9.093F 01			
1.366F-01		4.863F 02	7.873E-02	8.760F 01			
1.2298-01	2.051F 03	4.929F 02	7.768E-02	8.5578 01			
1-092F-01		5.008E 02	7.646E-02	8.717F 0			
9.6095-02	2.052E 03						
8.294F-02		5.135F 02	7.456E-02				
6.795E-02	2.053E 03	5.180F 02	7.391E-02	9.664F 01			
5.295F-02		5.194F 02	7.3726-02	9.687E 0			
2.678-02	2.053E 03	5.2035 02	7.359E-02	9.682E 0			
6.080F-04							
-2.476F-02	2.053E 03		7.372E-02				
-4.392F-02		5.194F 02					
-6.308F-02	2.053E 03	5.175 02		9.663F 0		02 5.183E	02
-8.276F-02	2.052E 03	5.171 02	7.4766-02	9.4106 0	1.226	02 5.129E	02
-1.022F-01	2.051 E 03	5.030E 02	7.611E-02	8.850F O			
-1.2275-01							
-1.419E-01	2.052E 03	4.830F 02	7.9276-02				
-1.608F-01	2.053E 03	4.758F 02	8.047E-02	9.2348 0	l T.139E	02 4.765E	ÓZ
	•						

X(FT)	9 S(FT)	WJ{#4/5	SFC1 PS(P	SF) MH	GAM	CP(STU/sk)
6.4076F-01	2.2126E-	-01 3.10096	-01 2.041	9F 03 2.8970E	01 1.400UE 00	2.4000E-01
2.813F-01 2. 2.426F-01 2. 2.171F-01 2. 1.911F-01 2. 1.782F-01 2.	(PSF) .053E 03 .053E 03	TS(R) F	8+120E-02 8-120E-02 8-112E-02 8-120E-02 8-103E-02	UX(FT/SEC) H 9.248F 01 1. 9.241E 01 1. 9.199F 01 1. 9.211E 01 1. 9.194F 01 1.	128E 02 4.722E 129E 02 4.727E 128E 02 4.722E 131E 02 4.732E	02 02 02 02 02 02
1.4795-01 2. 1.3955-01 2. 1.2955-01 2. 1.2085-01 2. 1.1245-01 2.		4.787° 02 4.816° 02 4.849° 02 4.901° 02 4.933° 02 4.975° 02 5.021° 02	7.896F-02 7.813F-02 7.761E-02 7.696F-02	8.939ē 01 1. 8.767F 01 1. 8.633E 01 1. 8.580F 01 1. 8.661E 01 1.		02 02 02 02 02 02
9.267F-02 2. 8.757F-02 2. 6.716F-02 2. 4.743F-02 2. 2.678F-02 2.	.052F 03	5.081F 02 5.126F 02 5.162F 02 5.198F 02 5.198F 02 5.189F 02		9.161F 01 1. 9.429E 01 1. 9.617E 01 1. 9.666F 01 1. 9.654F 01 1. 9.645I 01 1.	216E 02 5.088E 227F 02 5.133E 236E 02 5.170E 244E 02 5.206E 244E 02 5.206E 242F 02 5.197E	02 02 02 02 02 02
-5.3638-02 2. -7.225F-02 2. -9.141F-02 2. -1.100F-01 2. -1.376F-01 2.	0535 03 0526 03 0515 03 0516 03	5.1946 02 5.1756 02 5.1446 02 5.0716 02 4.9806 02 4.8636 02 4.7586 02 4.7586 02	7.443E-02 7.550E-02 7.689E-02 7.873E-02 8.046F-02	9.6686 01 1. 9.5366 01 1. 9.2256 01 1. 8.7336 01 1. 8.7486 01 1. 9.1816 01 1.	231E 02 5.151E 214E 02 5.078E 191E 02 4.986E	02 02 02 02 02 02

```
Y/FT1
                   PS(FT)
                                 WJ[#4/SFC]
                                                 PS ( PSF )
                                                                  MU
                                                                                GAM
                                                                                            CP(BTU/eR)
   7.8452F-01 2.3276F-C1 3.1082F-01 2.0419F 03 2.8970E 01 1.4000E 00 2.4000E-01
              PT(PSF) TS(R) R
2.052F 03 4.720F 02
2.052F 03 4.716F 02
2.052F 03 4.721F 02
2.052F 03 4.735F 02
                                        RHO(#4/FT3) UX(FT/SEC)
                                                                     H(BTU/#)
                                                                                                UADJ(FT/SEC)
                                                       9.026E 01 1.129E 02 4.727E 02
9.024E 01 1.128E 02 4.722E 02
                                         8.111E-02
8.1195-02
 2.736°-01
 2.3795-01
                                                                                  4.722E 02
4.727E 02
 2-1265-01
                                         3.111E-02
                                                       8.990E 01
                                                                    1.129E 02
                                          8.086F-02
                                                       8.991E 01
 1.876F-01
                                                                    1.133E 02
                                                                                   4.742E 02
 1.7535-01
              2.052 03
                            4.74 9F 02
                                          8.0625-02
                                                       8.9998 01
                                                                    1.136E 02
                                                                                   4.756E 02
                                         8.022E-02
7.9745-02
 1.679--01
              2.352 33
                            4.7735 02
                                                       8.985E 01
                                                                    1.142E 02
                                                                                   4.780E 02
              2.052F 03
2.051F 03
2.051F 03
 1.5055-01
                            4.902F 02
                                                       8.833F 01
                                                                    1.149E 02
                                                                                  4.808E C2
 1.379F-01
1.256F-01
                            4.854F 02
4.905E 02
                                         7.8885-02
7.8055-02
                                                       8.663E 01
8.570E 01
                                                                     1.161E 02
1.174E 02
                                                                                  4.860E 02
4.912E 02
 1.129--01
              2.051= 03
                            4.961F 02
                                          7.717E-02
                                                       8.644F 01
                                                                     1.188E 02
                                                                                   4.968E 02
                            5.017F 02
 1.703F-01
              2.051F 03
                                          7.632E-02
                                                       8.894E 01
                                                                     1.201E 02
                            5.071F 02
                                         7.550F-02
7.470E-02
 8.9705-02
              2.052F 03
                                                       9.2038 01
                                                                     1.214E 02
                                                                                   5.078E 02
              2.053E 03
2.053E 03
                            5.126E 02
5.162F 02
 7.3215-02
                                                       9.543E 01
9.675F 01
                                                                     1.226E 02
1.235E 02
                                                                                  5.133E 02
5.170E 02
 5.795F-02
                                          7.417F-02
 4.2695-02
              2.053E 03
                            5.185° 02
                                          7.385E-02
                                                       9.653E 01
                                                                     1.241E 02
                                                                                   5.192E
 2.678F-02
              2.053F 03
                            5.1985 02
                                          7.366E-02
                                                       9.716E 01
                                                                     1.244E 02
-4.249F-03
-3.555C-02
                                                       9.740E 01
9.675E 01
9.546E 01
              2.053E 03
2.053E 03
                            5.189F 02
                                          7.3795-02
                                                                     1.242E 02
                                                                                   5.197E 02
                                          7.385F-02
                            5.185F 02
                                                                     1.241E 02
                                                                                   5.192E 02
-6.713F-02
              2.052E 03
                            5.144F 02
                                          7.443E-02
                                                                     1.231E 02
                                                                                   5.151E 02
-9.8435-02
               2.052E 03
                            5.030° 02
                                          7.611F-02
                                                       8.995F 01
                                                                                   5.037E 02
                                                                     1.204E 02
                            4.896F G2
-1.300F-01
               2.051E 03
                                          7.8205-02
                                                       8.6432 01
                                                                     1.171E 02
                                                                                   4.902E 02
                            4.782F 02
-1.608F-J1
               2.052E 03
                                          8.0065-02
                                                       9.039E 01
                                                                     1.144E 02
                                                                                   4.789E
                                                                                           02
                            4.725F 02
-1.9328-01
                                          8-103F-02
              2.0535 03
                                                       9.211F 01
                                                                     1.131E 02
                                                                                   4.732E 02
```

X(=T)	45(FT)	WJ(#M/	SEC) PS(P	SF} ₩	W	GAM (P(BTU/#X)
8.13235-0	2.35065-	01 3.0998	-01 2.041	9E 03 2.09	70E 01 1.	4000E 00 2	-4000E-01
R(FT)	PT(PSF)	TS(R)	RHO(#4/FT3)	UX(FT/SEC)	H(BTU/#1	TT(R)	UADJ(FT/SEC)
2.5195-01	2.0525 03	4.711F 02	8.127F-02	8.823E 01	1.128E 02	4.718E 02	2
2.289F-01	2.0525 03	4.721F 02	8.111F-02	8.8485 01	1.129E 02	4.727E 02	!
2.3385-71	2.052F 03	4.7215 02	8.110F-02	8. 414E OT	1.129E 02	. 4.727E 02	
1.9635-01	2.0525 03	4.726F 02	8.102E-02	8.809F 01	1.131E 02	4.732E 02	!
1.8555-01	2.0525 03	4.735F 02	8.086F-02	8.784E 01	1.133E 02	4.74ZE 02	2
1.7555-01	2.052F 03	4.745E 02	8-070F-02	8.756F 01	1.135E 02	4.751E 02	
1.6557-01	2.051E 03	4.773F 02	8.021F-02	8.679E 01	1.142E 02	4.780E 02	?
1.5595-01	2.051F 03	4.802F 02	7.973F-02	8.591E 01	1.149E 02	4.808E 02	2
1.4555-01	2.051F 03	4.835F 02"	7.9195-02	8.54CE 01	1:157E 02	4.841E 0	
1.3555-01	2.051 03	4.878F 02	7.8508-02	8.476E 01	1.167E 02	4.883E 0	2
1.2565-01	2.0515 03	4.920F 02	7.7835-02	8.476E 01	1.177E 02	4.926E 02	<u> </u>
1.1595-01	2.0515 03	4.966F 02	7.710F-02	8.585 01	1.188E 02	4.972E 02	?
1.058F-01	2.051E 03	5.0075 02	7.6465-02	8.783E 01	1.198E 02	5.014E 0	2
7.5835-02	2.052 03	5.049E 02	7.584E-02	9.069E 01	1.208E 02		
- 5.346F-02	2.0525 03	5.108F 02	7.4965-02	9.359E 01	1.223E 02	5.115E 0	- -
6.9005-02	2.052F 03	5.143F 02	7.437E-02	9.561E 01	1.232E 02	5.156E 0	?
5.558F-02	2.053F 03	5.176F 02	7.3986-02	9.630E 01	1.239E 02	5.183E 0	2
4.296F-02	2.J53F 03	5.185F 02	7.385F-02	9.669F 01	1.241E 02	5.192E 0	?
1.1946-02	2.053F 03	5.194F 02	7.372E-02	9.668E 01	1.243E 02	5.201E 0	?
		5.189F 02	7.378F-02				
-4.716F-02	2.053F 03	5.1715 02	7.404F-02	9.625E 01	1.238€ 02	5.179E 0	2
-6.6055-02	2.052F 03	5.135F 02	7.4565-02	9.518F 01	1.229E 02	5.142E 0	?
-8.4945-02	2.052E 33	5.076F 02	7.543F-02	9.214E 01	1.215E 02	2 5.083E 0	2
-1.07AF-01	2.051F 03	4.098F 02	7.660E-02	8.732E 01	1.196E 02	5.005E 0	2
-1.230F-01	2.0515 03	4.91 UE 02	7.797E-02	8.488F 01			
-1.419F-01		4.8408 02	7.9115-02	8.615E 01			
-1:6025-01		4.783F 02		8.775E 01			
-1.842F-01	2.052F 03	4.7255 02	8.103E-02	8.913E 01	1.131E 02	2 4.732E 0	?

XIFTI	R	5(F	n ·		٦ij	(WM)	SEC	•	75	(PSF	7 –			W			GAM	- 61	(BTU/JR)
_9.0684F-	01 2.	425	5=-	01	3.	0986	BE-01	1	2.04	•14E	03	2	2.89	7 <u>0</u> E	01	1	.4000E_00	2.	4000E-01
R(FT)	PT(PS	F}		T S	(R)		RHO	{ #M	/FT	3) U	X (F	T/9	SECI	н	(BTL	/ #) TT(#)	UADJ(FT/SEC
3.000F-01	2.052	5 0	3	4. 7	25F	02	8.	103	€-07	Ž 8	.94	0E	Õĺ	~ ;	131E	Ō.	2 4.7326	02	
2.642F-01	2.052	F O	13	4.1	215	02	8.	111	5-0	2 8	.90	5E	01	1.	1296	0	2 4.7278	02	
Z.289F-01	2.052	F 0	13	4.	ZIE	02	8.	Ш	E-0.	2 8	.88	7E	01	٦.	1301	0	2 4.7276	OZ	-
2.050F-01	2.052	F 0	3	4. 7	'3 OF	02	8.0	94	E-0	2 8	.87	8 E	01	ı.	1318	0.	2 4.7378	02	
1.792F-01	2.052	E O	3 -	4.7	4 9F	02	3.0	562	E-03	2 - 8	. 85	0E	01	٦.	1366	0.	4.756	02	-
1.658F-01	2.051	E 0	3	4.7	78F	02	8.6	013	E-0	2 8	. 74	3E	01	1.)43E	0	2 4.7846	02	
1.574F-01	2.051	Fδ	13	4.7	925	02	7.	989	E∸0:	2 - 8	.69	GE.	01	τ.	1461	70	2-4:7998	02	-
1.4955-01	2.051	E 0	13	4.8	11 6F	02	7.	950	E-0	2 8	.65	8F	01	1.	1538	0	2 4.8226	02	
1.40801	2.051	E O	13	4.	4 9F	02	7.	896	E-0	2 8	.60	IE	01	1.	1601	0	2 4.8551	02	-
1.287E-01	2.051	€ 0	3	4.6	96F	02	7.	B20	E-0	2 8	.48	5E	01	1.	1726	0	2 4.9028	02	
1.156F-01	2.051	E-0	3-	4.	52Ê	02	7.	732	E-0.	2 8	.57	3E	01	1.	1858	0	4.958	02	-
1.037F-01	2.051	€ 0	3	5.0	07E	02	7.0	646	E-0	28	.78	9E	01	1.	1988	0	2 5.0148	02	
9.162F-02	2.052	E O	3	5. (153F	702	7.	577	E-0	2 9	.09	2E	01	1.	2091	-0.	5.060	. 05	
7.918F-02	2.052	E 0	13	5.1	035	02	7.	503	E-0	2 9	.37	5E	01	ı.	2216	0.	2 5.1108	02	
6.684E-02	2.052	E O	13	5.	4 4E	02	7.	443	E-0	2 9	. 55	IE	01	1.	2311	: 0	2 5.1510	02	-
5.479F-02	2.053	E O	13	5.1	716	02	7.	404	E-0.	2 9	-60	16	01	1.	2386	0	2 5.1790	02	
2.678F-02	2.053	E 0	13	3.	94F	02	7.	372	F-0.	2 9	.65	4E	01	1.	2431	0	2 5.201	02	-
4.714F-04	2.053	E O	3	5.1	94F	02	7.	372	E-0.	2 9	. 65	6E	01	1.	2431	0	2 5.2018	02	
2.908F-02	2.053	E 0	3	3.1	89E	02	7.	378	E-0	29	.63	3E	701	1.	2421	0	2 5.197	02	-
5.606F-02	2.053	E O	13	5.	5 7F	02	7.	424	E-0.	29	- 60	5E	01	1.	2346	0	2 5.1658	02	
9.195F-02	2.052	ΕÚ	13	5.0	75 3E	02	7.	577	E-0	2 9	- 05	OF	01	1.	2091	0	2 5.060	02	
1.276E-01	2.051	ΕŌ			06F				F-0.		.51			1.	173	0	2 4.912	02	
1.632E-01	2.051			4.	787E	02	7.	997	E-0		.75			1.	1461	7	2 4.794	02	
1-937E-01	2.052			4.	74 OE	02	8.	078	E-0		. 93			ì.	134	Ò	2 4.746	02	

X(F1)	05(+1)	WJ(#4/5=0)	PS (PSF)	MM	GAH	CP(BTU/eR)
1.0107F	00 2.5085=-C1	3. CHBOE-01	2.0419E 03	2.8970E 01	1.4000E 00	2.4000E-01
2(FT)	PT(DSF) TS	S(R) RHO(M/FT3) UX(FT/	SEC) H(BTU	(#) TT(R)	UADJ(FT/SEC)
2.7075-01	2.7525 03 4.7	7255 02 8.10	2E-02 8.902E	01 1.131E	02 4.732E	02
2.3555-01	2.0525 03 4.1	725F 02 8.10	2F-02 8.898F	01 1.131E	02 4-732E	02
2.7295-01	2.05?E 03 4.	730E 02 8.09	94F-02 8.8205	01 1.132E	02 4.737E	02
1.755-01	2.0525 03 4.1	759F 02 8.04	5E-02 8.797E	01 1.139E	02 4.765E	02
1.6765-01	2.0515 03 4.7	7690 02 8.02	95-02 8.7535	01 1.1412	02 4.775E	02
1.5975-21	2.0515 03 4.1	792F 02 7.98	9F-02 8.747E	01 1.146E	02 4.799E	02
1.5135-01	2.0515 03 4.8	311F 02 7.99	8.688E	01 1.151E	02 4.818E	02
1.4275-21	2.051F C3 4.8	84 OF 02 7.91	1F-02 8.6055	01 1.158E	02 4.846E	02
1.3535-01				01 7.166E		02
	2.051F 03 4.5	920F 02 7.78	33F-02 8.571F	01 1.178E	92 4.926E	02
		989F J2 7.6		01 1.194E		02
				01 1.208E		02
			OE-02 9.3698	01 1.220E	02 5.106E	02
				01 1.234E		
			78E-02 9.6146			
		194E 02 7.3		01 1.243E		
		185F 02 7.3		01 1.2416		
		121F 02 7.4		01 1.226E		
		007F 02 7.6		01 1.198E		-
		877F 02 7.85		01 1.167E		
			21F-02 8.723E			
-1.9728-01			36F-02 8.8378			
	200022 03 40					

- x(FT)	RS(FT)	WJ(#M/SF) PS(PSF)	HW		CP (BTU/BR)
1.2848F	00 2.7278F	-01 3.1053F-	01 2.0419E 03	2.8970E 01	1.4000E 00	2.4000E-01
R(FT)	PT(PSF)	TS(R) RHI)(44/FT3) UX(F	T/SEC) H(BTU	/#) TT(R)	UADJ(FT/SEC)
2.518F-01	2.052F 03	4.726F 02 8	102E-02 8.85	2E 01 1.1316	02 4.732E	02
2.263F-01	2.052F 03	4-730F 02 8	094E-02 8.84	1E 01 1.1328		
2.078=-01	2.052F 03	4.740F 02 8	.078E-02 8.82	9E 01 1.134E		
1.7535-01	2.052F 03	4.768F 02 8		2E Ol 1.14lE		
1.6055-01	2.051F 03	4.7925 02 7		1E 01 1.146E		
1.4555-01	2.051F 03			OE 01 1.157E		
1.3095-01	2.051E 03			9E Öl 1.167E		
1.161F-01	2.051F 03			6E 01 1.179E		
	7.051F 03			3E 01 1.195E		
8.610F-02	2.052E 03			8E 01 1.207E		
7.1105-02				IE 01 1.218		
4.6645-02	2.053E 03	5.157F 02 7		2E 01 1.234E		
1.9775-02				4F 01 1.239E		
-7.758F-03	2.053E 03			8E 01 1.240		
-3.420F-02				IE 01 1.236		
-6.4975-02				1E 01 1.2216		
-9.546F-02				4E 01 1.198		
-1.265F-01				8E 01 1-1746		
-1.562 ^r -01			966F-02 8.67			
-1.851F-01	2.052F 03	4.759F 02 B	.046E-02 8.84	9E 01 1.1396	02 4.765E	02

χ(F†) 1.5318°		(FT) 254E-		#M/9	SEC) [-01		PSF) 19F 03	2.89	1 70 E 01	GAM 1.4000E 00	CP(BTU/#R) 2.4000E-01
2(FT)	PT(PSF)	TS(R)	6	RHI) (#	4/FT3) UX(F	T/SEC)	H(BTU	/#) TT(F	UADJ(FT/SEC)
2.5876-01	2.0515	03	4.735	02	8.09	5F-02	8.71	6E 01	1.133E		
2.266F-01	2.052F		4.730E	02		4E-02		3E 01	1.132E		
1.7581-01	-2.051F	03	₹. 740F	02	8.07	8E-02	8.71	6E 01	1.134E	~02 ~ 4. 7 466	02
1.703°-01	2.0516		4.773F			1 E-02		1E 01	1.142E		
1.5456-01	2.051F		4.807F			6F-02		3E 01			
1.397F-01	2.0515	03	4.844F	02	7.90	4F-02		4E 01			
1.232F-01	2.0515		4.896F			0F-02		7E 01	1.1716		
1.0715-71	2.0515	03	4.943E		7.74	5E-02		6E 01	1.183E		
9.1895-02	~7.751F	03	4.993F	32	7.66	8 E – 0 Z	8.95	1E 01	1-195E		
7.269F-02	2.0525	03	5.057F		7.57	l F-02		8E 01	1.211E		
5.321F-02	2.0525	03	5.1125	02	7.49	0F - 02	9.52	2E 01	1-224E	02 5.120	02
3.4075-02	2.353F	03	5.148F	02	7.43	7E-02	9.58	4E 01	1.233E	02 5.156	02
1.356F-02	2.053F	03	5.1678	02	7.41	1 F-02	9.60	0E 01	1.237E		
-6.678F-03	2.053F	. 03	5.162F		7.41	7E-02	9.62	4E 01	1.236E		
-7.692F-02	2.052F	03 1	5.157E	32	7.42	4F-02	9.57	1E 01	1.234E	02 5.165	0.2
-4.689F-02	2.052E	03	5.1215	02	7.47	6E-02	9.51	45 01	1.226E	C7 5.129	02
-7.441F-02	2.0525	03	5.057F	02	7.57	1€-02	9.26	1E 01	1.210E	02 5.0650	02
-1.072F-91	2.0516	03	4.980F	02	7.65	9F-02	8.85	5E 01	1.191E	02 4.986	: 02
-1.297F-01	2.051	03	4.8915	02	7.82	8E-02	8.59	3E 01	1.170E	02 4.8981	02
-1.570F-01	2.051E	00	4.811F	02	7.95	8E-02	8.59	3F 01	1.151E	02 4.818	02
-1.842F-01	2.051	: 03	4.769E	02	8.02	9F-02	8.70	DE DI	1.141E	02 4.775	02

VELOCITY	MATIO 1:1, 1	RIPPED					
X(FT)	RS(FT)	MJ (#M	(SEC) PS	(PSF)	MW	GAM	CP(BTU/#R)
	00 3.1216E				2.8970E 01	1.40001 00	2.4000E-01
R(FT)	PT(PSF)	TS(R)	RHO (GM/FT				
2.568F-01		4.749F 02					
2.25201	2.052E 03	4.744E 02	8.0706-0				
1.947E-01	2.052E 03	4.759E 02					
1.774F-01	2.05ZE 03	4.773F 02	8.022E-0	2 8.8816	01 1.142E	02 4.780E	CZ
1.595F-01	2.052E 03	4.811E 02	7.958E-0	2 8.8058	01 1.151F	02 4.818E	02
1.419F-01	2.051F 03	4.844F 02	7.904F-0	2 8.7158	01 1.159E	02 4.851E	02
1.245E-01	~~2.051¢ 03	4.896F 02	7.820E-0	2 8.6715	01 1.1716	02 4.902E	02
1.064F-01	2.051E 03	4.947 02	7.739E-0	2 8.7526	01 1.104E	02 4.954E	02
8.8995-02	Z.052E 03	4.998E 02	7.661E-0	2 8.9688	01 1.190E	702 5.0052	02
7.136F-02	2.052E 03	5.048E 02	7.584E-0	2 9.2258	01 1.2087	02 5.055E	02
5.400 -02	2.0525 03	5.098E 02	7.510E-0			02 5-106E	02
3.650F-02	2.052E 03	5.125E 02	7.457E-0	2 9.5426	01 1.229E	02 5.14ZE	02
1.942E-02	2.053E 03	5.148F 02	7.437E-0	2 9.5988	01 1.233E	02 5.156E	02
3.381F-04	2.052E 03	5.148F 02	7.437E-0		01 1.233E	02 5.156E	02
-2.098F-02			7.456F-0		01 1.229E		
-5.202F-02		5.094E 02					
	2.052E 03	5.012F 02					
-1.149E-01	2.051E 03						
-1-465F-01	2.051£ 03	4.835F 02					
-1.786F-01	2.051E 03	4.778F 02					
X(FT)	RS(FT)	H# ILW	ISEC) PS	(PSF)	MW	GAM	CP(BTU/#R)
1.95975					2.897CE 01	1.4000E 00	
R(FT)	PT(PSF)	TS(R)	RHD (#4/FT)	3) UX(FT/	SEC) HEBTU	(#) TT(R) UADJ(FT/SEC)
2.847F-01	2.052E 03	4.759F 02	8.046E-0	2 8.8466	01 1.139E	02 4.765E	02
2.523F-01	2.052E 03	4.754F 02	8.054E-0	9.0215	01 1.138E	02 4.761E	02
2.195E-01	2.052F 03	4. 749F 02	3-062E-0			02 4.756E	~02
1.866F-01	2.052E 03	4.778F 02	8.014E-0	2 8.9926	01 1.143E	02 4.784E	02
1.682-01	2.052F 03	4.806E 02	7.9665-0	2 8.9525	01 1.150E	02 4.813E	02

1.95975	00 3	. 26	78E-	01	3.	0800)E-0	ì	2-04	19E	03	2	. 657	7C E	01	ı.	4000	E 00	2.	4000E-01
R(FT)	PT(P			T	5(R)		RHO	(#4	/FT	3) U	X(F	1/ 51	ECI	H	BTU.	/#)		TT(R)	UADJ(FT/SEC)
2.847F-01	2.05	2E	03	4.	75 SF	02	8.	046	E-02	8 9	.846	5E (01	1.1	39 E	02	4.	765E	20	
2.523F-01																		761E		
2-195E-01	2.05	2F	03	ቒ 。∶	743F	02	-9-	062	E-02	7 3	.117	SE (01	7.1	36 E	-02	4.	756E	02	
1.866F-01	2.05	2E	03	4.	778F	02	8.	014	E-02	. 8	.99	?E (01	1.1	43E	02	4.	784E	02	
1.6825-01	2.05	2F	03	4.1	306E	02	7.	966	F-02	2 8	.95	25 (01	1.1	50E	02	4.	B13E	02	
1.4985-01	2.05	25	03	4.	83 9E	02	7.	912	E-02	2 8	.91	2E (01	1.1	58E	02	4.1	846E	02	
1.313F-01	2.05	2F	03	4.	877F	02	7.	851	E-02	2 8	.87	7E (01	1.1	67E	02	4.	883E	02	
1-129F-01					91 9E													926E		
9.47802	2.05	ZE	03	4.	りろるピ	702	7.	692	E-07	29	-09	DE C	־ גוס	1.1	93E	702	4.	991E	02	
7.689F-02	2.05	SE	03	5. (02 5F	02	7.	619	E-02	2 9	. 24	DE (01	1.2	03E	02	5.	032E	20	
5.795°-02	2.05	25	03	5.0	2080	02	7.	537	E-04	? 9	.38) 3C	01	1.2	16E	02	5.	088E	02	
3.893E-02	2.05	ZF	03	5.	112F	02	7.	490	E-02	? 9	.44	7F (01	1.2	23E	02	5.	120E	02	
1.977F-02	2.05	26	03	5.	1265	02	7.	470	E-02	2 9	.48	le (10	1.2	27E	02	5.	133E	02	
3.381F-04					135E				E-0		.49				29E			142E		
-1.882F-02	2.05	SE	<u>C3</u>	5.	1125	02	7.	4 90	F-0	2 9	.44	IF (<u> </u>	7.2	24 E	702	- 3.	120E	02	
-3.798F-02	2.05	2E	03	5.	089E	02	7.	523	E-0	2 9	.43	LE I	01	1.2	186	02	5.	097E	02	
-7.522F-02	2.05	25	03	5.	01 LF	02	7.	640	E-0.	۷ 9	.20	8F (01	1.1	99 E	02	5.	019E	02	
-1.135F-01	2.05	18	03	4.	910°	02	Ŧ.	798	F-0	2 8	.86	∌F (01	1.1	75 E	02	4.	916E	02	
-1.508E-01	~~2.65	2F	03	4.	82 SF	02	7.	935	E-02	8 9	.86	LE 4	01	1.1	55 F	02	4.	832E	02	
-1.807F-01	2.05	25	03	4.	778F	02	8.	014	F-0	2 8	. 95	9E	01	1.1	43E	02	4.	784E	02	

X(FT) 7.3515F-		FT) 059F-0		M/SEC)	PS (PS		Ma 2.8970	2E 01	GAM 1.4000E		(BTU/#R) .4000E-01
						-					
R(FT)	PT(PSF))	TS(R)	KHO (#	M/FT3)	UX(FT/	SEC	H(BTU/	#2 1	T(R)	UADJ(FT/SEC)
1.9725-01	Z.056F	03 4	.96CF 0	2 7.72	4E-02	1.0386	02 1	1.188E	02 4.9	69E 02	1.038E 02
1.7605-01	2.0566	03 _4	• 46 OF 0	2 7.72	4E-02	1.035E		1.188E		169E 02	.U35E 02
1.545F-01	2.056E		.960E 0	2 7.72	4E-02	1.034		1.1986		169E CZ	1.034E 02
1.3995-01	2.056E				9F-02	1.028f		1.189E		179E UZ	1.028E 02
1.3375-01	2.055F		.985F U		7 - 0 2	1.0026		1.193E		193E 02	1.002E 02
1.313F-01	2.0558				9E-02	9.9038		1.198E		112E 02	4.901E 01
1.2898-01	2.0545		.0275		1E-02	9.5366		1.203E		35E 02	9.532E 01
1.265E-01	2.053E		.965F C		4E-02	9.0766		1.2126		725 02	9.070£ 01
1.2426-01	2.964F		.136F C		0E-02	1.3236		1.231E		51E 02	1.325E U2
1,232F-01	2.072F		.14CF 0		58-02	1.5075		1.233E		20 309	1.57UE 02
1.210F-01	2.098F		-194E C		74-02	2.1836		1.251E		33E U2	2.189E 02
1-195E-01					91-02	2.3796		1.257E		61E 02	2.386E 02
1.162F-01	2.117F				95-05	2.5215		1.261E		74E 02	2.529E 02
1.140E-01	2.124E		.225F 0		2E-02	2.6386		1.263E		283E 02	2.646E 02 2.747E 02
1.116E-01 1.092F-01	2.130E 2.136F		.225F 0		2F-02	2.7386		1,264E		288E 02 297E 02	2.841E 02
1.0706-01	2.139E		.230f C		96-02	2.876		1.266E		197E 02	2.886E 02
1.048F-01	2.1435		.221E		96-02	2.9265		1.264E		928 02	2.936E 02
1.028F-01	2.1465		.223F (5F-02	2.9738		1.266E		197E UZ	2.983E 02
1.Q06E-01	2.147E		.227E 0		1E-02	2.995		1.268E		101E 02	3.005E 02
9-836F-02	2.149€		.226F C		26-02	3.0136		1.267E		101E 02	J. U24E U2
8.018F-02	2.150E		. 2293		7E-02	3.040		1.268E		306E 02	3.050E 02
6.238F-02	2.150E		.220F (9F-02	3.0308		1.266E		97E 02	3.U4UE U2
4.420F-02	2.149E		.230E C		6E-02	3.0199		1 . 268 E		306E 02	3.029E 02
2.6195-02	2.148E		.235F J		9E-02	3.0126		1.269E		10E 02	3.022E 02
7.3975-03	2.148E		-225E_V		95-02	3.0146		1.269E		10E 02	3.024E 02
-2.1016-02	2.149E		.230E C		6E-02	3.020E		1.268	02 5.3	106E 02	
-4.886E-02	2.150E	03 5	. 234E C	2 7.32	JE-02	3.031F	02	1.269E	02 5.	10E 02	
-6.814F-02	2.149E		.234E C	2 7.32	UF-02	3.0256	02	1.269E	02 5.3	310E 02	
-8.754F-02	2.150F		.234E (15-05	3.0346		1.269E		10E 02	
-9.6666-02	2.149F		.221F 0		8F-02	3.017F		1.266E		247E 02	
-1.065E-01	2.138F		. 224F C		46-02	2.8666		1.265E		292E 02	
-1.087F-01	2.133E		.219E C		2E-02	2.7848		1.263E		283E 02	
-1.103F-01	2.126E		.219F C		16-02	2.674E		1.261E		279E 02	
-1.122c-01	2.1215		.219E C		26-02	2.5848		1.260E		274E 02	
-1-1455-01	2.113E		.220F C		0F-02	2.4508		1.259E		270E 02	
-1.169F-01	2.1016		196E C		4E-112	2.2388		1.251E		2388 02	
_1.191E~01 .				27,44		1.723F		1.236E		169E 02	
-1.211F-01	2.053£		-0652 0		4E-02	9.055		1.212E		172E 02	
-1.237F-01	2.054E		.004E 0		6E-02	9.2966		1.198E		12E 02	
-1.257F-01	2.055E		.976F (18-02	9.7598		1.191E 1.181E		983E 02 941E 02	
-1.352F-01	2.0565		.932~ C		8F-02	1.0258		1.179E		36E 02	
-1.445F-01 -1.516E-01	2.056E				6E-02	1.0366		1.179E		30E UZ	
-743706201	£+030E	V2 4.	≖ 749¢	<u> </u>	05-05	1.0300	02	6 + 2 1 7 5	UE 703	-30E UE	

X(F() RS(FT)	HJ(#P/SEC)	PS (PSF)	Mu .	AH CP	(BTU/#R)
1.2591F-01 1.8007E-01		2.0434E 03 2.			
		1573 WEST 165		77.01	1.40 MET (CCC)
	S(R) RHO(#M 9755 02 7.695	/FT3) UX(FT/SE	C) H(BTU/#) 2 1.192E 02	TT(R) 4.988E 02	UADJ(FT/SEC) 1.039E 02
1.620F-01 2.056E 03 4.				4.993E 02	1.038E 02
	993E 02 7.673			5.002E 02	1,040E 02
	026E 02 7.634			5.035E 02	1.065E 92
	057E 02 7.575	E-02 1.113E 0	2 1.211E 02	5.068E 02	1.113E 02
	093F 02 7.524			5.105£ 02	1.204E 02
	114E 02 7.492			5-128E 02	1.279E 02
	130E_027.469			_5-146E_02_	1-409E 02
	145F 02 7.446 16CF 02 7.425			5.165E 02 5.183E 02	1.520E 02 1.655E 02
	170F 02 7.411			5.197E 02	1.800E 02
	186F 02 7.388			5.220E 02	2.011E 02
	1985 02 7.371			5-238E 02	2.194E 02
		E-02 2.357E 0		5.251E 02	2.357E 02
	209F 02 7.355				2.488E 02
	22ZE 02 7.338			5.279E 02	2.620E_02_
	226F 02 7.731			5.288E 02	2.719E 02
	240E 02 7.311				_ 2.005E_02_
	251F 02 7. 296 <u>252F 02 7.295</u>	E-02		5.319E 02 5.324E 02	2.865E 02 2.934E 02
		E-02 2.973E (2.973E 02
	258E 02 7.287				3-003E 02
	261E 02 7.283				3.028E 02
		E-02 3.047E C			
	265E 02 7.277				3.042E 02
		E-02_3.034E_0			3-034E 02
	2706 02 7.270				3.027E 02
		E-02 3.030E 0			3.030E_02
	270E 02 7.270 270E 02 7.270	E-02 3.030E 0		5.346E 02 5.346E 02	
	270E 02 7.271			5.346E 02	
		E-02 3.051E			
		E-02 3.009E			
		E-02 2.986E (2 1.274E 02		
		E-02 2.939E		5.324E 02	
	246E 02 7.304			5.315E_02_	
	2286 02 7.329				
	<u>219F 02 7.342</u> 210 F 02 7.354	E-02 2.681E 0			
-1.116E-01 2.112E 03 5.		E-02 2.439E		5.251E 02	
		E-02 2.272E			
-1.159E-01 2.095E 03 5.				_5.229E 02	
	175E 02 7.404	E-02 1.925E ()2 1.244E 02	5-206E 02	
	106E 02 7-416	E-02 1.760E (5.192E 02	
	153E 02 7.435				
-1.253E-01 2.066E 03 5.					
	118E 02 7.486				
	102E 02 7.510 030E 02 7.617	E-02 1.211E (E-02 1.067E (5-114E 02 5-040E 02	
	979E 02 7.695				
	975E 02 7.695				
-1,752E-01 2.056E 03 4.					

X(FT)		Fil	WJ (#M,		PSIP		MH		GAM			BTU/#R)
2.5250E-	01 1.90	20F-01	1.001	00 3C	2.043	4E 03	2.897	70E 01	1.400	06 90	2.4	000E-01
_ R(FT)	PT(PSF)	rs	(R)	RHO (#	M/FT5)	UX(FT/	SEC	H(BTU/	" # }	TTER)	UADJIFT/SEC
2.100E-01	2.056E	03 4.9	93E 02	7.67	3F-02	1.038E	02	1.196E	02 5	-002E	02	1.038E 02
1.803F-01			89E 02									1.037E_02
1.647E-01			03F 02		9E-02			1.198E		.012E		1-043E 02
1.572F-01			215 02			1.0616		1.202E		.030E	02	1.061E 02
1-487E-01			71E 02		6E-02			1.214E		.081E	02	1.139E 02
1.439E-01		03 5.0	92E 02	7.52	4E-02	1.232E	02	1.220E	02 5	.105E	02	1.232E 02
1.401E-01	2.063E		23F 02		06-02			1.228E		. 137E	02	1.314E 02
1.357E-01			47E 02					1.234E				1.437E 02
1.314F-01			62E 02	7.42	2E-02	1.586		1.239E	02 5	.183E	02	1.586E 02
1-272F-01			76E 02					1.243E		.201E	02	1.753E 02
1.231E-01			79E 02		85-02			1.246E		.210E	02	1.937E 02
1.194E-01	2.096E		95E 02			2-1348		1.251E		.233E		2.1346 02
1.147E-01	2.108E		10E 02		5E-02					.256E	02	2.361E 02
1.106E-01	2.120F	03 5-2	19E 02	7.34	1E-02	2.5688	02	1.261E	02 5	.274E	02	2.5685 02
1.06 1E-01	2.130E	03 5.2	30F 02	7.32	7E-02	2.7468	02	1.265E	02 5	.292E	02	2.746E 02
1-0245-01			38E 02		4E-02					.306E	92	2.846E 02
9.822E-02		03 5.2	52E 02	7.29	5E-02	2.9438	02	1.273E		.324E	02	2.943E 02'
9.391E-02	2.147E	03 5.2		7.29	3 E-02	3.0038	0.2	1.273E	02 5	.328E	02	3.003E 02
8.971F-02	2.149E	03 5.2	65E 02	7.27	7E-02	3.0328	02	1.277E	02 5	.34ZE	02	3.032E 02
8-126E-02	2.150E	03 5.2	73E 02	7.26	6E-02	3.0536	02	1.279E	.025	.351E	02	3.053E 02
7.247E-02	2.150E	03 5.2	74E 02	7.26	5E-02	3.0478	02	1.279E	02 5	.351E		3.047
_6.026F-02		Q3 .5.2	74F 02	7.26	5E-02	3.0428	02	1.279 €	02 5	.351E	02	3.042E 02
4.738E-02	2.149E	03 5.2	79F 02	7.25	8E-02	3.0368	02	1.280E	02 5	.355E	02	3.036E 02
3.484F-02	.2.149E	03 5.2	83F 02	7,25	2E-02			1.281E	02 5	.360E	02	3.033E 02
1.517E-02	2.149E	03 5.2	84F 02	7.25	2F-02	3.0318	02	1.281E		.360E		3.031E 02
-1.346F-02			79E 02		8E-02_	.3,0326	02	1.28QE		.355E		
-4.120E-02	2.149E	03 5.2	79E 02	7.25	8E-02	3.0358	02	1.280E	02 5	-355€	02	
-6.922E-02	2.15QE	.03 5.2	83F Q2	7.25	3E-02	3.0468	02	1.281E	02 5	.360E	20	
-8.76 ZE-02	2.149E	03 5.2	66E 02	7.27	7E-02	3.0316	02	1.277E	02 5	-342E	02	
-1-005E-01	2.137F		3QE 02	7.32	7E-02	2.8446		1.266E		-297E	02	
-1.051E-01			23E 02		6E-02	2.6958	02	1.263E		-283€		
-1.094E-01								1.258E		.261E	02	
-1.132E-01			89E Q2					1.251E		.233E		
_1.175E-Q1.	2.094E	.Q3 5 . 1				2.0828		1.248E		•224€		
-1.220E-01	2.083E		77E 02		1E-02			1.244E		.206E		
-1.260E-01			6 CE Q2		5E-02			1.239E		.183E		
-1.302E-01			46E 02		5E-02	1.4826		1.234E		.165E		
-1.392E-01			92E 02					1.220E		-105E		
-1.477E-01			39E 02					1.207E		.049E		
-1.682E-01			30 36 B		0E-02	1.0356		1.194E		-998E		
-1.802E-01	2.0562		93E 02		3E-02	1.0368		1.196E		.002E		
						1 2200	- ^ -	1.193E	07 4	2026	~~	
-1.848E-01 -1.896E-01	2.056E		84F Q2		8E-02 8E-02	1.0386		1.193E		.993E		

XIFT	RSIFTI	WJ (WM/SE	C) PS(PS	F) MW	GAM	CP(BTU/#R)
	1 2.0023E-01					2.4000E-01
				-		
R(FT)	PT(PSF) TS	(R) R	10 (#M/FT3)	UX(FT/SEC) H(E	TU/3) TT(R	
			7.702E-02	1.036E 02 1.19	1E 02 4.983E	02 1.036E 02
1,9505-01	2.056E 03 .4.9	750 .02 _ 1	7.7026-02	1.036F 02 1.19	1E 02 4.483E	U2 1.036E 02
				1.041F 02 1.19	4E 02 4.998E	02 1.0416 02
1.673F-01	2.0575 03 5.0	07F 02 1	7.6525-02	1.064E 02 1.19	9E 0Z 5.016E	02 1.064E 02
1.5958-01	2.05AE 03 5.0	345 02 7	1.6125-02	1.124F 02 1.20	6E 07 5.044E	02 1.124E 02
1.512E-01	2.0625 03 5.0	73F 02 1	1.552F-02	1.245E 02 1.21	6E U2 5.086E	OZ 1.245E OZ
			7.490E-02	1.401E 02 1.22	6E 02 5.128E	
1.396f -Q1.	2.0695 03 5.1	236 02 1	7.479E-02	1.494E 02 1.22	9E 02 5.1426	.02 1.494E.Q2.
1.352F-01	2.074E 03 5.1	38F 02 7	1.457E-02	1.625F 02 1.23	3E 02 5.160E	
1.311E-01	2.078E C3 5.1	49F 02 1	7.442F-02		6E 02 5.1748	
1.269F-01	2.0848 03 5.1				1t 02 5.1926	
1.224F-01	2.091E 03 5.1	72F 02 1	7.409F-02	2.031E 02 1.24	4E 02 5.206E	02 2.031E 02
	2.094E 03 5.1				6E 02 5.215E	UZ 2.198E 02
		83F 02 7	7.392E-02	2.334t 02 1.24	98 02 5.2298	. 02 <u></u> 2-334£_02.
1.0995-01			7.374E-02		48 02 5.2478	
1.0607-01	2.123E 03 5.2	04E 02 1	7.363E-02	2.614E 02 1.29	7E 02 5.2610	
			7.352E-02		1E 02 5.2746	
9.8055-02	2.1356 03 5.2	2 2F 02 7	7.337E-02	2.808F 02 1.26	4E 02 5.2886	
9.4185-02	2.1406 03 5.2		7.330E-02		6E UZ 5.297E	
98 25 - 92	2.144E_035.2	3.3E 02 7			8E UZ 5.3U6E	
4.186F-02	2.14RE 03 5.2	53E 02 1	7.294F-02	3.019F 02 1.27	4E 02 5.3286	
7.3745-02					6E UZ 5.337E	
5.622F-02					7E UZ 5.3428	
					8E 02 5.346E	
2.859F-02					BE 02 5.346E	
9.026E-03	2,1485,03 5,2	7,98 , Q2 1	1.2575-02		UE UZ 5.3556	
-2.242F-02					98 02 5.3518	
-5.353F-02					9E 02 5.3516	
					8E 02 5.346E	
					3E 02 5.3288	
					8E 02 5.3016	
1.045E=01	2.125E . V3 5.2				9E 02 5.2706	
					3E 02 5.2428	
					5 6 02 5.2108	
					7E 02 5.174E	
-1.394F-J1					98 02 5.1426	
			1.545 E-U2		7E 02 5.0916	
-1,6115-01,	2.058E 03 5.0				5E 02 5.044E	
					8E 02 5.012E	
					4E 02 4.9988	
-1.931F-01	2.056E 03 4.9	89F 02 7	7.680E-02	1.036E 02 1.19	4E 02 4.998E	: OZ

X(FT) 4.9894E-0	RS(FT)			MW 2.8970E 01	GAM 1.4000E OU	CP(BTU/#R) 2.4000E-01
R(FT)	PT(PSF)		(#M/FT3) UX(FT	SEC) H(BTU/) TT(R)	UADJ(FT/SEC)
2.328F-01	2.056E 03	4.989E 02 7.	660E-02 1.037	02 1-194E	2 4.998E (2 1.036E 0Z
2.113E-01	2.056E 03	4.998E 02 7.	666E-02 1.038	02 1.197E	12 . 5.00 TE.	12 1.038E_Q2
1.8985-01	2.056E 03	5.003E 02 7.	659E-02 1.040	02 1.198E	2 5.012E (02 1.040E 02
1.776F-01	2.057E. 03	5.021F 02 7.	631E-02 1.066	02 1.202E	2 5.030E (2 1.065E ^2
1.704F-01	2.058E 03		597E-02 1.110	02 1.208E		
1.630E-01	2.060E 03		558E-02 1.194			
1.5678-01	2.0636 03		519E-02 1.284			
1.494E-01			483E-02 . 1.408			
	2.072E 03		461t-02 1.563			
1.350E-01.			4356-02 1.742			
	2.083E 03		414E-02 1.850			
	2.089F 03		406 E-02 1.982			
	2.095E 03		393 E-02 2.114			
1-1735-01		3.192F 02 7.	3795-02. 2.217			
	2.106E 03		3746-02 2.369			
	2.114E 03		367E-02 2.470			
	2.121E 03		3678-02 2.581(347/,-02 2.668(
	2.136E 03 2.132E 03		347 <i>E</i> -02 2.767(
9.2226-02			326E-022.832			
	2.140E 03		3/06=022.032. 3176-02 2.890			
8_089E-02			297E-02 2.964			
	2.148E 03		269E-02 3.011			
6.061E-02			2536-02 3.043			
	2.150E 03		246E-02 3.0441			
2.453E-02		5-2926 02 7-	2406-02 _ 2.037		2 5.3698	
	2.149E 03		240E-02 3.037			
	2.149E 03		240E-02 3.040			
-4.919F-02	2.150E 03	5.292E 02 7.	240E-02 3.0481			
	2.148F 03		2644-02 3.0251			
	2.143E 03		295E-02 2.944			
	2.132E 03		328E=92 2.764			2
-1.089F-01	2.116E 03	5.208E 02 7.3	3576-02 2.5130			•
-1.203E-01	2.094E 03	5.165E 02 7.	389E-02 2.1650			
	2.084E 03	5.1635 02 7.4	421E-02 1.8641			
-1.411E-01	2.072E 03	. 5.144" 02 7.4	448E-02 1.5730			2
-1.603E-01	2.061E 03	5- C745 02 7.5	545E-02 1.2201		2 5.091E C)2
-1.792E-01	2.057E 03	_5.012± 02 _7.0	6456-02 1.0578	02 1.199E	2 5.021E C	2
-1.9795-01	2.056E 03	4.989E 02 7.0		02 1.194E C	2 4.998E C	12

AEDC-TR-75-54

X(FT)	RSIFT) hJ{#P	SFC) PS(I	SF1 MW	GAM	CP(STU/WR)
6.74135-	01 2.2033	E-01 9.977	F-01 2.043			2.4000E-01
R(FT)	PT(PSF)	TS(R)		UX(FT/SEC) H(BT)		
2.3137-01	2.056# 03	4.993F 02	7.673 E-02	1.038E 02 1.195		
2.0775-01	2.056. 03	4.948F 02	7.6665:-02	1.0356 02 1.197		
1.706F-01	2.0575 03	5.007F UZ	1.652F-02	1.058F 02 1.198		
1.8287-01	2.057# 03	5.03 CF 02	7.6186-02	1.089E 02 1.204		
1.755F-01 1.657E-01	2.050E 03	5.052F 02 5.0785 02	7.5846-02			
1.4725-01	2.061F 03 2.065E 03	5.108° 02	7.545E-02 7.502E-02			
1.470F-01		5.1235 02	7.479t-02			
	2.3766 03	5.1415 02	7.452E-02	1.6766 02 1.234		
1.3095-01		5.15 RE 02	7.4296-02	1.891F 02 1.240		
	2.0948 03	5.165F 02	7.418E-02	2.085E 02 1.243		
	2.1075 03	5.1786 02	7.399E-02			
1.0358-01		5. 1936 02	7.377E-02	2.5344 02 1.254		
	2.12dE 03	5.204 02	7.3625-02	2.7056 02 1.259		
	2.139E 03	5.223F 02	7.335E-02	2.8768 02 1.265		
7.2226-02	2.1445 03	5.242F 02	7.3095-02	2.954F 02 1.270		02 2.9548 02
F.3771-02	2.147F 03	5.25 WF 02	7.287F-02	2.496E 02 1.274		
4.3985-02	2.149F 03	5.2836 02	7.2526-02	3.033F 02 1.2819	02 5.360E	02 3.033E 02
2.2975-02	2.149E 03	5.2 F 8F 02	7.246 E-02	3.031E 02 1.203		
	2.1495 03	5.288E 02	7.2468-02	3.0326 02 1.2821	E 02 5.364E	02 3.0328 02
-3.3955-02		5.288E 02	7.246f-02	3.035E 02 1.2630		02
-4.2955-02		5.266F 02	7.2764-02	3.018E 02 1.277		
-7.5999-02		5.251F 02	7.2976-02	2.970E 02 1.2720		
-4.455F-02		5.215 02	7.347502	2.763E 02 1.2621		
-1.0835-01		5.190f J2	7.383F-02			
-1.2741-01		5.167E 02	7.415E-02			
-1.36ar-01	2.080F C3	5.156F U2	7.430F-02	1.784E 02 1.2391		
-1.5086-01	2.0695 03	5.123F 02	7.479E-02	1.4846 02 1.2290		
	2.052F 03	5.082E 02	7.5396-02	1.250F 02 1.2181		
-1.4057-01	2.0585 03	5.0345 02	7.6116-02	1.097E UZ 1.205		
	2.056E 03	4.993F 02	7.6735-02	1.038E 02 1.196		
	2.056E C3	4.998F 02	7.606 E-02	1.038E 02 1.196		
-2.27+1-01	2.056# 03	4.989t 02	7.6808-02	1.037f 02 1.194	02 4.9986	02

X(FT)	RS(FT)	WJ (#M75	SEC) PS(F	SF) M		GAM CP	(BYU/#R)
7.4859E-0							4000E-01
*****	• ••••	•• •• ••	•••				
P(FT)	PT(PSF)	TS(R)	RHG(MM/FT3)	UX(FT/SEC)	H(BTU/#)	TT(R)	UADJIFT/SEC)
2.5235-01	2.056= 03	4.993E 02	7.673E-02	1.038E 02	1.196E C2	5.002E 02	1.038E 02
2,3355-01	2.056F 03	4,9936 02	7.673E-02	1.035F 02	1.196E 02	5.002E 02	1.035E Q2
2.1386-01	2.0565 03	5.003E 02	7.659F-02	1.045E 02	1.198E 02		1.045E 02
	2.057E 03	5.012F 02	7.645E-02	1.064E 02	1.200E 02		1.064E 02
	2.058E 03	5.038F 02		1-121F 02	1.207E 02		1.121E 02
1.7798-01	2.060E 03	5.060F 02	7.571E-02	1.1876 02	1.213E 02		1.187E 02
	2.062E 03	5.0829 02	7.539E-02	1.271E 02	1.218E 02		1.271E U2
				1.4158 02	1.224E 02		1.415E 02
	2.071F 03	5.117F 02	7.487E-02		1.2286 02		1.532E 02
	2.075F 03	5.137E 02	7.458F-02	1.660E 02	1.233E 02		1.660E 02
	2.082F 03	5c146F 02		1-819E 02	1.236E 02		1.819E 02
	2.089E 03	5.159E 02	7.427E-02	1.992E 02	1.241F 02		1.992E 02
	2.099F 03	5-166E 02	7.417E-02	2.189E 02	1.244E 02		2.189E 02
	2-108E 03 -	5-1695 02	7.413E-02	2.356E 02	1.246E 02		2.356E 02
	2.117E 03	5.185E 02	7.389E-02		1.252E 02		2.510E 02
	2.124F 03	5.198E 02	7.371E-U2	2.634E 02	1.256E 02		2.634E 02
	2.131E 03	5.202E 02	7.365E-02	2.746E 02	1.259E 02		2.746E 02
	2.138E 03	5.220E 02	7.3408-02	2.853E 02	1.264E 02		2.853E 02
	2.142E 03	5.230F 02	7.325E-02	2.919E 02	1.268E 02		2.919E 02
	2-145E 03	.5.246E .02		2.972E 02	1.271E 02		. 2.972E Q2
	2.147E 03	5.2589 02	7.2876-02	3-000E 02	3.274E 02		3.000£ 02
	2.148F 03	5.2715 02	7.269E-02	3.017E 02	1.278E 02		3.017E 02
	2.149E 03	5.283E 02	7.246E-02	3.032E 02	1.282E 02		3.032E 02
	2.149E 03	5.288F 02	7.246E-02	3.031F 02	1.282E 02		3.031E 02
	2.149E 03	5.284F 02	7.252E-02	3.030F 02	1.281E 02		
	2-149E 03		_7.252E-02	3.0318 02	1.281E 02		w
	2.146E 03	5.268F 02	7.274E-02		1.277E 02		
	2.140E 03	5.228E 02 5.221F 02	7.329E-02	2.885E 02 2.885E 02	1-266E 02		
	2.136E 03	5.204E 02	7.338E-02	2.720E 02	1.264E 02 1.258E 02		
	2.129E 03		7.363E-02	2.602E 02	1.255E 02		
	2.122E 03	5.195E 02 5.183E 02	7.375F-02 7.392E-02		1.251F 02		
	2.103E 03	5.177E 02	7.401E-02	2.2658 02	1.2478 02		
	2.093E 03	5.161F 02	7.423E-02	2.062E 02	1.2426 02		
	2.076F U3	5.141E 02	7.452E-02	1.666F 02	1.234E 02		
	2.0652 03	5.094F 02	7.521E-02	1.3436 02	1.221E 02		
	2.059E 03	5.047E 02	7.5216-02 7.5916-02	1.142E 02	1.209E 02		
	2.057E 03		7.659E-02	1.050E 02	1.198E 02		
	2.056E 03	4.998E 02	7.666E-02	1.034E 02	1-197E 02		
	2.056E 03	4.9935 02	7.6738-02	1.038E 02	1.196E 02		
P1334101		40 / 73% UZ	.10.26-02	110701 05	14100 02	2000EC 0E	

X(FT)	P S (FT)	hJ (4)	4/SEC)	PSIPS	(F)	MW		GA₩	c	P(BTU/#R)
8.7679E-0		145-01		C6F-01	2.0434		2.8970	E 01	1.4000E		.4000E-01
REFT	PT(PSF)		S(R)		4/FT3)			H(BTU/		T(R)	JADJ(FT/SEC)
10-7869+2	2.0565		993= 0		3 F-0 2	1.038F		.195E		02E 02	1.038E 02
2.4911-01	2.056F		993F 01		35-02	1.0386		.196E		02E 05	
2.2835~01	2.05EF		JU3F 0.	2 7.65	4E-02	1.0418		.198E		12E 02	1.0416 02
2.1197-01	2.057F		01 2F 0:		5 :- 02	1.062F		.199E		21E 02	1.062E 02
1.957F-U1	2.058£		03 BF 01		55-02	1-124F		.207E		49E 02	
1.861F-01	3.360E		056= 0.		8 <i>E</i> -02	1.1888		.211E		68E 02	1.188E 02
1.7825-01	2.062F	03 5.0	073E 0:	7.55	3F-02	1.2548		.216E		86E 02	1.254£ 02
1.703F-01	2.J64E		090E 0.		86-02	1.332E		-22UE		05E 02	
1.6075-03	2.058E		110F 0.	7.49	86-02	1.451E		.226E		28E 02	
1.5235-01	2.0728		117F O.		86-05	1.567E		.228E		37E 02	
1.439°-01	2.076F		137F 0.		96-02	1.6785		.233E		.60E 02	
1.353F-01	2.083F	03 5.	150F 0	2 7.43	96~02	1.840€	02 1	.238E	02 5.1	78E 02	1.840E 02
1.2625-01	2.090F		1548 0	2 7.43	4E-02	2.001		.239E		88E 02	2.001E 02
1.1775-01	2.U99E	03 5.	166F 0.	2 7.41	7F-02	2.188E	02 1	.244E	02 5.2	106E 02	2.188E 02
1.093F-01	2.107E	03 5.	1745 0	2 7.40	58-02	2.3408	02 1	.248E	02 5.2	20E 02	2.340E 02
1.0115-01	2.115E	03 5.	172F O.	2 7.40	7E-02	2.4886	02 1	.249E	02 5.2	24E 02	2.488£ UŽ
9.274t-02	2.123E	03 5.3	1950 0	2 7.37	65-02	2.613E	02 1	.255E	02 5.2	51E U2	2.613E 02
8.3955-02	2.130E	03 5.	1988 0	2 7.37	05-05	2.733E	02 1	.257E	02 5.2	61E 02	2.733E UZ
7.54402	2.136E	03 5.2	213F U	2 7.35	0F-02	2.819F	02 1	.262E	02 5.2	79E 02	2.819E 02
6.7935-02	2.140E	03 5.	223E U	2 7.33	5E-02	2.882E	02 1	.264E	02 5.2	92E U2	2.882E Q2
5.936 ^c -02	2.144E	03 5.2	238E 0	2 7.31	55-02	2.9486	02 1	.269E	02 5.3	IUE 02	2.948E 02
4.571F-02	2.147E	03 5.3	2625 U	2 7.28	1E-02	3.003E	02 1	.276E	02 5.3	37E 02	3.003E 02
2.902F-02	2.149E	03 5.3	2755 0	2 7.26	45-02	3.0278	02 1	.279E	02 5.3	51E 02	3.027E 02
1.7617-02	2.1495	03 5.3	2935 0	2 7.25	2F-02	3.0318	02 1	.281E	02 5.3	60E 02	3.031E 02
-7.0638-03	2.149E	03 5.	2835 0	2 7.25	2F-02	3.0328	02 1	.281E	02 5.3	60E 02	
-4,083F-02	2.1485	03 5.	267E 0	2 7.27	56-02	3.010F	02 1	.277E	02 5.3	42E 02	
-6.404°-02	2.142E	03 5	244E 0	2 7.30	6E-02	2.9215	02 1	.270E	02 5.3	15E 02	
-8.277°-02	2.131E	J3 5.	211E 0	2 7.35	3E-02	2.7545	02 1	.261E	02 5.2	74E 02	
-9.554°-02	2-122F	03 5.	195F O	2 7.37	5E-02	2.5996	02 1	.255E	02 5.2	51E 02	
-1.087F-01	2.1085	03 5.	182F O	2 7.39	3E-02	2.3585	02 1	30c5.	02 5.2	29F 02	
-1.2116-01	2.0965	03 5.	173E 0	2 7.40	7F-62	2.121E	02 1	. 245E	02 5.3	10E 02	
-1.346F-01	2.0836	03 5.	150F 0	2 7.44	0E-02	1.8526	02 1	-238E	02 5-1	78E 02	
-1.5525-01	2.070E	03 5.	118º 0	2 7.48	6E-U2	1.5066	02 1	-228E	02 5.1	37E 02	
-1.734F-01	2.J63E		0865 0	2 1.53	3 E-02	1.2846	02 1	.219E	02 5.1	100E 02	
-1.8998-01	2.058E	03 5.	043E U	2 7.59	85-02	1.130E	02 1	.208E	02 5.0	54E 02	
-2.091F-01	2.0575	03 5.	012F 0	2 7.64	5F-02	1.057F	02 1	.200E	02 5.0	21E 02	
-2.2858-01	2.056F	03 4.	9985 0	2 7.66	6E-02	1.0388	02 1	-196E	02 5.0	07E 02	

X(FT) 1.0024F	00		(FT) 0195	- 01		-	SEC1		S (PS 0434	F)	3	M 89.2		01		AM DOOE OO		18TU/8R1 4000E-01	
q(FT)	PΤ	(PSF)	TS	(R)		RHO (##/F1	(13)	UX (f	T/	SEC	A)	t BTU.	/#1	TTER	,	UADJEFT	/SEC)
2.657F-01		056E	-			02	7.6					02				5.016E		1.0395	02
2.4955-01										1.04				199E		5.016E	02	1.041E	Q2 .
2.333F-01	2.	056E	03				7.6			1.04				3005		5.021E		1.046E	02
2.1745-01	2.	057E	03	5. J	3 OF	02	7.6	17E-6	02	1.07	778	02	1.2	204E	02	5-040E	02	1.077E	02
2.013F-01	2.	059E	03	5.0	525	02	7.5	84F-6	20	1.13	36E	02	1.2	210E	02	5.063E	92	1.136E	02
1.924F-01		060E					7.5	65E-1				02		21 JE		5.077E		1.199E	
1.833E-01		062E			775			46 E -				02		217E		3.091E		1.264E	
<u>1,752f-01</u>								145-1				02				3.114E		1-345E	
1~6685~01		067E		5.1			7.4			1.4				227E		5.1326		1.421E	
1.582F-01		071E		5.1			7.4			1.54				2 2 8 E		5.142E		1.541E	
1.486E-01		076E					7.4					02		237F		5-160E		1.6638	
1.412F-01		080E		5.1			7.4					02		236E		5.1698		1.7622	
1.3218-01		085E		5.1				36E-				02		237E		5.1638		1.902E	
1.2325-01							7.4					C2						2.070E	. 02
1.158F-01				5.1			7.4					02		245E					
1.0725-01				5.1			7.3									5.2248			
9.898F-02		114E		5.1				80E-				02						2.476E	
8.958F-02							7.3					0.5				5.2568		2.614E	
8-113F-02		1298			045			63 E-				02		258 E		5.2658		2.7166	
7-279E-02							_Z.3						4.	2635	02			2079BE	
6.416F-02				5.2			7.3					02		267E		5.3016		2.881E	
5.322F-02		143E		5.2			7.2					02				5.3246		2.946E	
• 339E - 02				5.2				79F-		2.9				276E		5.3378		2.983E	
3.537F-02				5.2			7.2					02		280E		5.3468 5.3558		3.010E 3.019E	
2.454E-02 1.647E-02		148E			80E			57E-				02						3-0245	
7.799F-03				5.2								02		283E		5.3698		3.0265	
1.585E-04				5.2			7.2					02				5.3608		340440	76
1.016E-02		1488		5.2				51E-				02		281E		5.3608			
1.839E-02				5.2			7.2					02		280E		5.3556			
2.580F-02		147E				02		68E-				02		278 E		5.3468			
3.359E~02				_5.2 _5.2				73E-				Q2.							
4.7%6F-02							7.3			2 9	9.7 S	~ VA	- +.*	271E	02	5.3196			
6.133E-02		139E				02	7.3					02		267E		5.3016			
7.681E-02		130E		5.2								οž		261E		5.274			
9.112F-02		1205				02		80E-		2.5				254E		5.2476			
1.072F-01		1076				02		99E-				02		249E		5.2246			
1.202F-01		095E		_5.1								02				5.206			
1.397F-01		0808					7.4	50E-	02	1.7	68F	02	1.	235 F	02				
1.607E-01			03									٥z							
1.7986-01							7.5					02							
1.9976-01		0586				02		04 E -				02		207E		5.049			
2.201E-01		0576				02		52E-				02		198E		5.016			
2.422E-01		0566				. C.		66E=				QZ.							

X(FT)	9 S (F T					GAM	CP(BTU/#R)
1.1259F	JO 2.6007	E-01 9.5611	E-01 2.043	4F 03 2.89	70 E 01 1	.4000E 00	2.4000E-01
R(FT)	PT(PSF)		RHD(#M/FT3)				
2.7375-01	2.036E 03		7.645E-02	1.040E 02	1.200E 0		
	2,056F 03		7.633F-02		1.201E 0		
2.356E-01	2.057 03		7.624E-02		1.2038 0		
	2.0585 03		7.597E-02		1.208E 0		
2.041(-01			7.564E-02	1.169E 02	1.213E 0		
1.9025-01	2.062E 03		7.5468-02		1.217E 0		
	2.0645 03		7.514F-02		1.222E 0		
	2.0666 03		7.496E-02	1.398E 02	1.22%E 0		
	2.069F 03		7.4856-02		1.228E 0		
	2.072F 03		7.474E-02		1.229E 0		
	2.075E 03		7.458F-02		1.233E 0		
	2.080£ 03		7.436E-02		1.2386 0		
	2.0865 03		7.429F-02		1.240E 0		
	5 5 5 5 1 E 03		7.421E-02		1.242E 0		
	Z.096E 03		7.401E-02		1.246E 0		
	2.102F 03		7.3948-02		1.249E 0		
	2.110E 03		7.389E-02		1.251E 0		
	2.116F 03		7.3698-02		1.255E 0		
	2.122E 03		7.3638-02		1.257E 0		
<u>7.39</u> 0E-02	_2.131E.03	5.216E Q2.	_ 7•346E-02	2.745E 02	1.2626 0		02 . 2.745E . 02
	2.136E 03		7.3325-02		1.265E 0		
	2.139E 03		7.310E-02		1.2695 0		
	2.142E 03		7.2945-02		1-273E 0		
3.566F-02			7.2738-02	2.983E 02	1.277E 0		
2.179E-02	2.147E 03	5.280F 02	7-256E-02	3.010E 02	1.280E 0		
9.0235-07	Z.148E_03	5,280F 02	7.257E-02	3.017E CZ	1.280E 0		
	2.148F 03		7.245E-02		1.282E 0		
	2.147E 03		7.256E-02	3.002F 05	1.28CE 0		
3.485E-02			7.2846-02		1.274E 0		
	2.135E 03		7.3255-02		1.266E 0		
	2.120F 03		7.367E-02		1.256E 0		
	2.100E 03		7.405E-02	2.206E 02	1.246E 0		
	2.081E 03			1.804E 02	1.238E 0		
	2.0688 03		7.485F-02		1.228E 0		
	2.061E 03		7.5459-02	1.238E 02	1.2176 0		
2-1896-01				1-079E 02	1.2056 0		
2.401E-01	2.056E 03	5.0126 02	7.645E-02	1.048F 02	1.200E 0	2 5.021E	02

	0.04.53						4894448 3
X(FT)	RSIFT						(BTU/#R} 4000E-01
1.2519F	00 2.7015	59-01 9.951	26-01 2.043	14E 03 2.891	10E 01 1.4	000E 00 2.	40005-01
R(FT)	PT(PSF)	TS(R)	RHO(#M/FT3	UX(FT/SEC)	H(BTU/#)	TT(R)	UADJ(FT/SEC)
2.762E-01	2.056E 03	5.0315 02	7.616E-02	1.033E 02	1.204E 02	5.040E 02	1.033E 02
2.575F-01	2.056E 03	5.031F 02	7-6165-02	1.042E 02	1.204E 02	5.040E 02	1.04ZE_02_
2.400E-01	2.057E 03	5.035F 02	7.610E-02	1-06ZE 02	1.206E 02	5.044E 02	1.0626 02
2.230E-C1	2.058E 03	5.053E 02	7.583E-02	1.117E 02	1.210E 02	5.063E 02	1.117E 02
2.0525-01	2.060E 03	5.079E 02	7.544F-02	1.189E 02	1.216E 02	5.091E 02	1.189E 02
1.928F-01			7.520E-02		1.221E 02	5.107E 02	1.294E_02
1.811F-01			7.495E-02		1.226E 02	5.128E 02	1.373E 02
		5-132E_02	_1,466E-02				1.500E 02
	2.074E 03		7.450E-02		1.234E 02	5.165E 02	1.613E 02
1.449F-01			7.4308-02		1.238E 02		1.765E 02
1-308F-01			7.412E-02	1.961E 02	1.243E UZ		1.961E 02
1.230F-01			7.404E-02		1.245E 02	5.210E 02	2-0645 02
1.148t-01			7.390F-02		1.248E 02	5.224E 02	2.176E 02
	<u>2-103E_0</u> ;		7.382E-Q2	_2.277E 02_	1.251E 0Z	_5,2336_02_	
	2.111E 03		7.358E-02			5.256E 02	2.413E 02
8.943E-02							2.514E_02
8.1365-02					1.259E 02		2.604E 02
7.335E-02					1.26ZE 02		2.692E Q2_
6.301°-02			7.310E-02		1.268E 02	5.306E 02	2.789E 02
	2-137E 0		7.308E-02			5-310E 02	
3.9086-02							2.928E 02
2.411F-02 1.505E-02					1.279E 02 1.281E 02	5.360E 02	_2.9 <u>80E_U".</u> 2.988E_02
7.365E-03			7.249E-02		1.281E 02		2.993E CZ
-3.521F-03					1-282E 02	5.364E 02	.627.7255%.
-1.1986-02							
-1.988E-02						5-346E 02	
		5.270F 02				5-342E 02	
-3.773E-02					1.274E 02	5.328E 02	
-5.751E-02					1.266E 02	5-297E_02	
-8.531E-02					1.257E 02	5.261E 02	
	2.097E 0		7-395E-02			5.220E 02	
-1.397F-01				1.796E 02		5-188E 02	
-1.681E-01						5-142F_02	
-1.948F-01					1.216E 02	5.091E 02	
-2.178F-01				1.101E 02	1.209E 02	5.050E_02	
-2.419F-01				1.057E 02	1-204E 02	5.040E 02	
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RSIFTI
                               HJ ( MM/SEC )
                                             PS(PSF)
                                                                          GAN
                                                                                     CP(STU/#R)
                                                             MM
    1.5065E 00 2.9052E-C1 9.9377E-01 2.0434E 03 2.8970E U1 1.4000E 00 2.4000E-01
                            TSCRE
                                      PHO(#M/FT3) UX(FT/SEC)
                                                                HIATH/#1
                                                                              TTIRI
                                                                                        HADJEFT/SEC >
              2.056F 03 5.054E 02 7.581E-02
2.056F 03 5.054E J2 7.581E-02
                                                   1.0265 02 1.210E 02
1.036F 02 1.209E 02
                                                                            5-063E 02
  2-8665-01
                                                                                        1.026E 02
                                                                            5.063E 02
  2.781°-01
                                                                                        1-036E 04
              2.056E 03
                                       7.589E-02
                                                                            5-058E 02
                          5.049E 02
                                                   1.0548 02
                                                              1.209E 02
                                                                                        1.054E
  2.3847-01
              2.058E 03
                          5.062F 02
                                       7.569E-02
                                                   1.105F 02 1.212E 02
                                                                            5.072E 02
                                                                                        1.105E 02
                          5.075F 02
  2-239F-01
              2.059E 03
                                      7.550E-02
7.525E-02
                                                   1.158F 02 1.216E 02
                                                                            5.0868 02
                                                                                        1-158E 02
  2.087F-01
              2.062E 03
2.065E 03
                          5.091E 02
                                                   1.260E U2
                                                               1.220E 02
                                                                            5.105E 02
                                                                                        1.260E 02
                                       7.501 E-02
                                                               1.224E 02
                           5.108E 02
                                                   1.345E 02
                                                                            5.123E U2
1.799F-01
              2.069E 03
                          5.124F 02
                                       7.478E-02
                                                   1.470F 02 1.229E 02
                                                                            5.142E 02
                                                                                        1.470E
  1.670F-01
              2.072E 03
                          5.139F 02
                                      7.455E-02
                                                   1.573f 02 1.233E 02
                                                                            5.16UE 02
                                                                                        1.573E 02
                          5.149E 02
  1-5335-01
                                       7-441E-02
                                                   1.716t 02 1.237E 02
                                                                            5-174E 02
                                                                                        1.7166
              2.075E 03
                                                                                                02
  1.3877-01
              2.083E 03
                                       7.42UE-02
                                                   1.854F 02 1.241E 02
2.000E 02 1.246E 02
                                                                            5.194E 02
                                                                                        1.854E 02
                          5-164E 02
              2.090E 03
                          5.1HZE 02
                                       7.394E-02
                                                                            5.215t 02
                                                                                        2.0GUE
  1.109F-01
              2.098E 03
                          5.1850 02
                                       7.3891-02
                                                   2.1055 02
                                                               1.249E 02
                                                                            5.224E 02
                                                                                        2.165E 02
                          5.205F 02
5.218F 02
  9.338F-02
              2.108E 03
                                      7.361E-02
                                                   2.3656 02 1.2556 02
                                                                            5.251t 02
                                                                                        2.365E 02
                                      7.343E-02
                                                   2.4898 02 1.2596 02
  8-0845-02
                                                                                        2.489£ 02
                                                                            5.270E 02
              2.115E 03
                                                   2.650E 02 1.263E 02
2.775E 02 1.268E 03
                          5.225 02
                                       7.333E-02
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  6.559F-02
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                                                                                        2.65UF
   5.138F-02
              2.132E 03
                          5.242F 02
                                       7.309E-02
                                                                            5.306E 02
                                                                                         2.775E
                                                   2.839E 02 1.271F 02
2.874E 02 1.273F 02
2.930F 02 1.274E 02
  4.0115-02
              2.136E 03
                           5.252E 02
                                       7.295E-02
                                                                            5.319E UZ
                                                                                        2.8398
                                      7.285F-02
  3-188F-02
              2.138E 03
                          5.2605 02
                                                                            5.328E 02
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                          5.263F 02
5.271E 02
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              2.140E 03
                                       7.280E-02
                                                                            5.333E U2
                                                                                        2.900E 02
              2.142E 03
                                                                            5.342E 04
  1.392:-02
                                       7.2695-02
                                                   2.924E 02 1.277E 02
                                                                                        2.924E
                                      7.275E-02
7.275E-02
   5.4615-03
              2.141F 03
                           5.267F 02
                                                   2.9176 02 1.2766 02
                                                                            5.337E U2
              2.1415 03
 -3-104F-03
                           5.267E 02
                                                   2.9161 02 1.2768 02
                                                                            5.337E UZ
 -1.355c-02
                          5.263F 02
5.253° 02
                                      7.280E-02
                                                   2.899E 02 1.274E 02
              2.140F 03
                                                                            5.333E 02
                                       7.294E-02
 -2.731F-02
                                                   2.828E 02 1.271E 02
                                                                            5.3198 02
              2.135E G3
 -5.809F-02
               2.1238 03
                                       7.332F-02
                                                   2.624F 02 1.263E 02
                                                                            5.283E
                           5.226 02
 -8.738t-02
              2.107F 03
                           5.1925 02
                                       7.2798-02
                                                    2.343 02 1.251E 02
                                                                            5.238E 02
                                       7-401F-02
 ~ 1-172F-01
              2-090F 03
                           5.1775 02
                                                   2.000E UZ 1.246E 02
                                                                            5-210E UZ
                                       7.440F-02
 -1.4725-01
                                                   1.698E 02 1.237E 02
                                                                            5.174E 02
              2.077E 03
                           5.1505 02
                                                                            5.137E 02
                           5.120F C2
                                       7.4835-02
                                                   1.432E 02 1.228E 02
  -1.7715-01
              2.067E 03
                           5-084F 02
 -2.08UF-01
                                       7.537E-02
                                                   1-194E 02
                                                               1.218E 02
                                                                            5.095£
              2.060E 03
                           5-0495 02
 -2.3505-01 2.057E 03
                                      7.589E-02
                                                   1.082E 02 1.209E 02
                                                                            5-058F 02
    X(FT) RS(FT) #J(#M/SEC) PS(PSF) MW GAM CP(BTU/#R)
1.7575E 00 3.1060F-01 5.9375E-01 2.0434E 03 2.8970E 01 1.400UE 00 2.4000E-01
                                                                                        UADJEFT/SEC
                                      RHO(#4/FT3) UX(FT/SEC)
                                                                HESTU/#1
              PT(PSF)
                            TSIRI
  2.987F-01 2.056E 03 5.064F 02 4.567F-02 1.021F 02 1.213E 02 2.662F-01 2.057F 03 5.072F 02 7.554c-Jz 1.061E 02 1.214E 02
                                                                           5.072E 02
                                                                                         1.021E 02
                                                                            5.081E U2
                                                                                         1.061E U2
   2.4427-01
                                      7.542E-U2
7.517E-U2
7.495E-U2
                                                   1.123F 02 1.216F 02
1.225F 02 1.221F 02
1.361F 02 1.225F 02
              2.058F 03
                           5.0805 02
                                                                            5.091E 02
                                                                                         1.123E 02
              2.0A1F 03
                                                                            5.109E 02
                                                                                         1.2258
                                                                                                02
   2-2315-01
                           5.097f 02
5.112F 32
              2.365E 03
                                                                            5.128E 02
                                                                                         1.361E 02
   2-0145-01
                                      7.4711-02
                                                    1.4720 02
                                                                1.230E 02
                                                                            5.146t UZ
                                                                                         1.472E 02
   1.861--01
              2.069E 03
                           5.129E 02
                                      7.462°-02
7.427t-02
7.419f-02
   1.727F-01
               2.072E 03
                           5.135F 02
                                                   1.569E 02 1.233E 02
                                                                            5.155E 02
                                                                                         1.569E 02
                                                                            5.183E 02
                                                   1.701: 02
1.820F 02
                                                                                         1.7C1E
                           5.159E U2
                                                                                                02
 1.584E-01
              2.077E 03
                                                                1.239E 02
                                                                1.241E 02
                                                                            5.1926 02
                           5.165F JZ
                                                                                         1.820E
               2.J82E 03
  1-4425-01
               2.087F 03
                           5.174F 02
                                       7.4055-02
                                                    1.948: 02
                                                                1.2446 02
                                                                            5.206E 02
                                                                                         1.948E
  1-2895-01
    .154F-01
                           5-193F 02
               2.0935 03
                                       7.3798-02
                                                    2.081F 02
                                                                1.249E 02
                                                                            5.229E 02
                                                                                         2.081E
                                                                                                02
                                                   2.224F G2
2.357F 02
2.457E 02
   1-0205-01
               2.1018 03
                           5.197F 02
                                      7.373E-02
                                                                1.252E 02
                                                                            5.238E 02
                                                                                         2-224E
                           5.210° 02
5.224E 02
                                                                                         2.357E
  8-878=-02
                                                                1.256E 02
                                                                            5.25%£ 02
               2-107E 03
                                       7.3548-02
                                                                            5.274E 02
               2.113F 03
                                      7.334E-02
                                                                                         2.4576
  7.535F-02
                                                                1-26UE 02
                                       7.329E-02
7.321E-02
               2.120E 03
                           5. 22 8E 02
                                                    2.576t 02
                                                                1.263E 02
                                                                            5.283E 02
                                                                                         2.576E
   6-2645-02
                                                   2.655E 02
2.737E 02
                                                                                         2-665E
   4.9042-02
               2.125E U3
                           5.2335 02
                                                                1.265E 02
                                                                            5.292E 02
                                                                                                02
                           5.244F 02
                                                                            5.306E 02
                                                                1.268E U2
                                                                                         2.737E
                                                                                                02
  3.5175-02
               2.130F 03
                                       1.307E-02
                                       7.291F-02
7.293E-02
               2.133E 03
                                                    2.785F 02
   2.617F-02
                           5.255E 02
                                                                1.271E 02
                                                                            5.319E 02
   1.683F-02
               2.134F 03
                           5.254E 02
                                                    2.8098 02
                                                                1.272E 02
                                                                            5.319E 02
                                                                                         2.809E
                                                                                                02
 _6.217F-03
-2.182E-03
              2.134E 03 5.258F 02
2.133E 03 5.250F 02
                                       7.287E-02
                                                   2.8095 02
                                                                1.273E 02
                                                                            5.324E 02
                                                                                         2_8C9F
                                                    2.794E 02
                                                                1.271E 02
                                                                            5.315E 02
                                       7.298E-02
  -1-069F-02
               2.132E 03
                           5.251F 02
                                       7.297E-02
                                                    2.776F 02
                                                                1.271E 02
                                                                            5.315E 02
               2.123E 03
                           5.239F 02
                                       7.313F-02
                                                    2.628E 02
                                                                1.266E 02
                                                                             5.297E 02
  4-120F-02
  -7.076F-02
               2.10AE 03
                           5.214E 02
                                       7.3498-02
                                                    2.3736 02
                                                                1.257E 02
                                                                             5.251E 02
  -9.9775-02
                                       7.387E-02
                                                    2-124F 02
                                                                1-249F 02
                                                                             9-224E 02
               2-096F 03
                           5.1875 02
  -1.299F-01
               2.087E 03
                           5.163F 02
                                       7.4202-02
                                                    1.855F 02
                                                                1-241E 02
                                                                             5.192E 02
                                       7.462F-02
  -1.604F-01
               2.073E 03
                          5.134E U2
                                                    1.5915 02
                                                                1.232E 02
                                                                             5-155F
               2.065F 03
                           5-1075 02
                                       7.5026-02
                                                    1.3/2F 02
                                                                1.224E 02
                                                                            5.123E 02
              2.06UE 03, 5.079F 02
                                       7.543£-02 1.176E 02 1.216E 02
7.501E-02 1.072E 02 1.213E 02
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5.077E 02
  -2.190E-01
  -2.488F-01 2.057F 03, 5.067F 02
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X(FT)	RS(FT)	MA JUN	SECT PSE	PSF) I	16	GAM	CP(STU/HR)
1.578CE-	1.5001E-	-01 6.0084	E-01 2.03	18E 03 2.89	70E 01 1	.4000E GG	2-40006-01
R(FT)	PT(PSF)	TS(R)) UX(FT/SEC			
1.9695-01	2.045E 03	4.671E 02	8.157E-02		1.118E 0		
1.766E-01	2.045E 03	4.676E 02	8.148E-02		1.119€ 0		
1.569E-01	2.045E 03	4.671E 02	8.157E-02	1.0048 02	1.118E 0		
1.479E-01	2.045E 03	4.676F 02	C-148E-02		1.119E 0		
1-437F-01	2.044E 03	4.676E 02	8.148E-02		1.119E 0		
1.390F-01	2.044E 03	4.686F 02	8.131E-02		1-122E 0		
1.354E-01	2.043E 03	4.71 OF 02	8.089E-02		1.127E 0		
1.312F-01	2.042E 03	4.749E 02	8.0226-02		1.136E 0		
1.274F-01	2.042E 03	4.848E 02	7.858E-02		1.150E 0		
1.239F-01	2.055F 03	4.984F 02	7.644E-02		1-195E C		
1.188F-01	2.062E 03	5.057F 02	7.534E-02		1.214E 0		
1.145E-01	2.067E 03	5.081E 02	7.499E-02	1.742E 02	1.220E 0		
1.104F-01	2.071E 03	3.096E 02	7.476E-02		1.224E 0		
1.064F-01	2.0736 03	5.099E 02	7.471E-02		1.226E 0		
9.967F-02	2.075E 03	5.098E 02	7.473E-02		1.226E 0		
9.289F-02	2.075E 03	5.103E 02	7.467E-02		1.226F 0		
7.770E-02	2.075E 03	5.107E 02	7.460E-02		1.228E 0		
6.338E-02	2.075E 03	5.107E 02	7.460E-02	1.918E 02	1.228E 0		
4.866F-02	2.074E 03	5.112E 02	7.453E-02	1.907E 02	1.2298 0		
3.428E-02	2.074E 03	5.108E 02	7.459E-02		1.228E 0		
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-6.875F-02	2.075E 03	5.098F 02	7.4738-02		1.226E 0		
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-9.604F-02	2.075E 03	5-102E 02	7.467E-02		1.227E 0		
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-1.141E-01	2.070E 03	5.079E 02	7.502E-02		1.221E 0		
-1.185E-01	2.066E 03	5.068E 02	7.518E-02		1-217E 0		
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-1.272E-01	2.055E 03	4.979E 02	7.652E-02		1.194E 0		
-1.390F-01	2.043E 03	4.686F 02	8.130E-0;		1.122E 0		
-1.563E-01	2.045E 03	4.642F 02	8.207E-02		1.111E 0		
-1.682F-01	2.045E 03	4.637F 02	8.2246-02		1.109E 0		
-1.801E-01	2.045E 03	4.637E 02	8.224E-02	1.007F 02	1.109E 0)2 4.641E	02

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X(FT)	R	SIFTI	w.	1	/SEC)	PS(P	SF)	Mi	•	GAN		CPE	BTU/#R3	
1.2402F-		5744E			8E-01	2.031			OE 01	1.4000)F 00		000E-01	
			••	•••										
R(FT)	PTIPS	FS	TSSR		RHOLM	M/FT3)	UXIFT	SEC1	HEBTU	/ # h	TTIR	1	UADJEFT	/SEC)
1.9196-01	2.045		4.719E			4E-02	1.018		1.129E		.727E		1.018E	
1.707F-01	2.045		4.7196			4E-02	1.018		1.129E		727E		1.018E	
1.5678-01	2.045		4. 71 96			4E-02			1.129E		727E		1.015E	
1.433E-01	2.045		4. 7665			3E-02			1.1416		.775E		1.010E	
1.386F-01	2.045		4.8188			7E-02	1.024		1.154E		827E		1.024E	
1.328F-01	2.046		4.8976			0E-02			1.173E		907E		1.079E	
1.291E-01	2.048		4. 9336			3E-02			1.182E		944E		1.168E	
1.251F-01	2.052		4.9776			5E-02			1.193E		.991E		1.3C4E	
1-212F-01	2.056		5.0016			8E-02			1.199E		019E		1.439E	
1.170E-01	2.062		5. 02 96			5E-02			1.207E		.051E		1.633E	
1-124E-01	2.068		5. 05 86			3E-02			1.214E		.083E		1.785E	
1.034F-01	2.071		5. 0878			00-02			1.223E		.115E		1.881E	
1.044E-01	2.073		5.1086			8E-02			1.228E		. 138E		1.937E	
9.756F-02	2.075		5.1348			15-02			1.234E		. 165E		1.984E	
9.043E-02	2.076		5. 1386			5E-02			1.236E		. 170E		1.994E	
8.055F-02	2.076		5. 15 28			5E-02			1.239E		. 183E		1.995E	
7.062E-02	2.075		5. 1438			8E-02			1.237E		.174E		1.986E	
6.074E-02	2.075		5. 1438			7E-02			1.236E		174E		1.975E	
4.362E-02	2.074		5. 1448			7E-02			1.236E		.174E		1.965E	
2.568E-02	2.074		5. 1448			7E-02			1.236E		174E		1.966E	
7.445E-03	2.074		5. 144			7E-02			1.237E		.174E		1.967E	
-2.347E-02	2.074		5. 1448			7E-02			1.236E		174E			
-5.321E-02	2.075		5.1396			4E-02			1.235E		.170E			
-8.232E-02	2.075		5. 1436			8E-02			1.236E		.174E			
	2.075		5.1348			1E-02			1.234E		.165E			
	2.073		5.108			8E-02			1.228E		.138E			
-1-128F-01	2.070		5.075			8E-02			1.219E		-101E			
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-1.262E-01	2.055		4.975			8E-02			1.193E		991E			
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-1.4078-01	2.045		4.8186			7E-02	1.023		1.1548		.327E			
-1.451E-01	2.044		4.7578				1-005		1.139E		.765E			
-1.498E-01	2-045		4.719			4E-02	1.011		1.129E		.727E			
-1.569E-01	2.045		4-700			7E-02	1.010		1.125€		.708E			
-1.608E-01	2.045		4.695			5E-02			1.124E		.703E			
-1.745E-01	2.045		4-695			5E-02	1.014		1-124E		.703E			
-1.877E-01	2.045		4.695			55-02	1.015		1.124E		.703E			
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VELOCITY RATIO 2:1, UNTRIPPED
                                                                                     CP(BTU/aR)
                 RSIFTI
                              WJ ( OM / SEC )
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   2.5103E-01 1.6511E-01 6.1546E-01 2.0318E 03 2.8970E 01 1.4000E 00
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                                                                HIRTU/#1
                                                                                        UADJEFT/SEC)
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2.045E 03 4.73E 02 8.042E-02
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1.019F 02 1.134E 02
 2.242E-01
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                                                                                        1.019E 02
 1.985E-01
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                                                                                                02
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4.921E 02
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                                      7.238E-02
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                              WJ(#H/SEC)
                                                                                     CPIBTU/#R)
                 RS(FT)
                                             PS (PSF)
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2.075E 03
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2.045E 03

4.780F 02

The Subbands of Land Section 2

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7-970F-02

BTU/#R) DOOE-01 JADJ(FT/SEC) 1.020E 02 1.023E 02 1.023E 02 1.036E 02 1.046E 02
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1.970E 02

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8.2961F-	01 1.99785			18E 03 2.8	970E 01 1	.4000E 00	2.4000E-01
R(FT)	PT(PSF)	TS(R)	RHO(#M/FT3) UXIFT/SEC) H(8TU/#) TT(R)	UADJ(FT/SEC)
2.531E-01	2.044E 03	4.894E 02	7.785E-02	1.020E 02	1.171E 0	2 4.902E	02 1.020E 02
2.260F-01	2.044E 03	4.903F 02	7.770E-02	1.017E 02	1.174E 0	2 4.912E	02 1.017E 02
1.993F-01	2-044E 03	4. 91 7F 02	7.748F-02	1.016E 02	1.177E 0	2 4.926E	02 1.016E 02
1.833F-01	2.045E 03	4.968F 02	7.669E-02	1.034E 02	1.189E 0	2 4.977E	02 1.034E 02
1.6648-01	2.046F 03	5.055E C2	7.537E-02	1-097E 02	1.211E 0	2 5.065E	02 1.096E 02
1.533F-01	2.048E 03	5.13 OF 02	1.425E-02	1.194E 02	1.229E 0	2 5.142E	02 1.193E 02
1.431F-01	2.0518 03	5.174E 02	7.364E-02	1.292E 02	1.239E 0	2 5.1888	02 1.290E 02
1.330E-01	2.055F 03	5.203F 02	7.323E-02	1.4148 02	1.248E 0	2 5-219E	
1.230F-01	2.059E 03	5.222E 02	7.295E-02	1.541E 02	1.253E 0	2 5.242E	02 1 .536E 02
1.131F-01	2.063E 03	5.2465 02	7.262E-02	1.658E 02	1.259E 0		
1.028F-01	2.067E 03	5.270E 02	7.229E-02	1.766E 02	1.266E 0		
9.194F-02	2.0705 03	5.299E 02	7.190E-02				
8.159F-02	2.073E 03	5.328E 02	7.151E-)2				
7.143F-02	2.074E 03	5.367E 02	7.0998-02				
	2.075E 03	5.3976 02	7.059F-02				
5.156F-02	2.075E 03	5.4198 02	7.031E-02				
2.939E-02	2.075E 03	5.436E 02	7.0088-02				
7.785F-03	2.075E 03	5.445E 02	6.997F-C2				
-1.495F-02	2.075E 03	5.440E 02	7.003E-02				
-3.639E-02	2.075F 03	5.432F 02	7.014E-02				
-5.071E-02	2.075E 03	5.414E 02	7.037E-02				
-6.444E-02	2.075E 03	5.384F 02	7.077E-02				
-7.853E-02	2.074E 03	5.341F 02	7.134E-02				
-9.331E-02	2.070E 03	5.294E 02	7.196E-02				
-1.069E-01	2.066E 03	5.249F 02	7.259E-02				
-1.2185-01	2.059E 03	5.213E 02	7.308E-02				
-1-350E-01	2.053E 03	5.177E 02	7.359F-02				
-1.535F-01	2.G48E 03	5.104F 02	7.465E-02				
-1.723E-01	2.045E 03	5.000E 02	7.620E-02				
-1.915E-01	2.044E 03	4.922E 02	7.741E-02				
-2.108E-01	2.044E 03	4.898E 02	7.778E-02				
-1.555E-01	2.047E 03	5.090E 02	7.485E-02				
-1.745E-01	2.045E 03	4.986E 02	7.641E-02				
-1.9925-01	2.044E 03	4.908E 02	7.763E-02				
-2.135E-01	2.044E 03	4.894E 02	7.785E-02	1.016E 02	1.171E 0	2 4.902E	UZ

x(FT)	RS(FT)	h3(#P/	SEC) PS(F	SF) M	¥	GAM CP	(BTU/#R)
8.8000F-0	1 2.0280E	-01 6.1104	F-01 2.031	9E 03 2.89	70£ 01 1.	4000E 00 2.	4000E-01
R(FT)	PT(PSF)	TS(R)	PHO(#4/FT3)	UX (FT/SEC)	H(BTU/#:	TT(R)	UBBALFY/SEC1
2.320F-01	2.045F 03	4.80SE 02	7.923E-02	1.020E 02	1.1518 02	4-818E 02	1.0206 02
2.153F-01	2.045E 03	4.823F 02	7.899E-02	1.018E 02	1.155E 02	4-832E 02	1.018E 02
1.9915-01	2.045E 03	4.837F 02	7.876E-02	1.024E 92	1.158E 02	4.846E 02	1.0248 02
1.8855-01	2.045E 03	4.870E 02	7.823E-02	1.032E 02	1.1668 32	4.879E 02	1.032E 02
1.8025-01	2.045E 03	4.902E 02	7.771E-02	1.051E 02	1.174E 02	4.912E 02	1.051E 02
1.7425-01	2.046E 03	4.935E 02	7.7218-02	1.073E 02	1.182E 02	4.944E 02	1-073E 02
1.6765-01	2.046E 03	4.971E 02	7.6646-02	1.098E 02	1.191E 02	4.981E 02	1.098E 02
1.6125-01	2.047E 03	5-008F 02	7.608E-02	1.134E 02	1.199E 02	5.019E 02	1.134E 02
1.547F-01	2.048E 03	5.025F 02	7.5816-02	1.180E 02	1.204E 02	5.037E 02	1-180E 02
1.4936-01	2.049F 03	5.0525 02	7.5418-02	1.223E 02	1.210F 02		1.223E 02
1.432F-01	2.051E 03	5.083F 02	7.495E-02	1.285E 02	1.218E 02	5.097F 02	1.285E 02
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1.316F-01	2.055E U3	5.112E 02	7.453E-02		1,2266 02		1.423E 02
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1.167F-01	2.061E 03	5.144E 02	7.406 F-02	1.581E 02	1.234E 02		1.581E 02
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3.406F-02	2.075 03	5.339F 02	7.1356-02	1.967E 02	1.284E 02		1.96/E 02
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                                     RHO(#M/FT3) UX(FT/SEC)
7.771E-02 1.021E 02 1
7.756F-02 1.020E 02 1
                                                                H(8TU/#)
                                                                                        UADJ(FT/SEC)
                           TS(R)
             2.044E 03
                                                  1.021E 02 1.173E 02
1.020E 02 1.176E 02
                        4.903F 02
- 912E 02
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 2.573F-01
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                                                                           4.921E 02
             2.0448 03
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 2-305F-01
 2.1008-07
                          6.931E 02
                                      7.727E-02
                                                               1.181E 02
             2.044F 03
                                                   1.026E 02
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                          4. 9955 02
 1.894E-01
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 1.7285-01
             2.046E 03
                          5.0688 02
                                      7.5178-02
                                                  1.115E 02
                                                               1.2148 02
                                                                           5.078E 02
                                                                                        1.114E 02
                                      7.445E-02
 1-614F-01
             2.048E 03
2.051E 03
                          5-1175 02
                                                  1.177F 02
                                                               1.2268 02
                                                                           5-129E 02
                                                                                        1.176E
                          5.161E 02
                                      7.382F-02
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                                                               1.236E 02
                                                                           5.174E 02
 1.4926-01
                                                  1.387E 02
 1.3756-01
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                          5.190E 02
                                      7.341E-02
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                                                                           5.206E 02
                                                                                        1.383E
 1.279F-01
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                          5.210E 02
                                      7.312E-02
                                                  1.487E 02
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                                                                           5.228E 02
                                                                                        1.482E
                                                                                        1.579E
                          5.230E 02
                                      7.2848-02
                                                  1.5848 02
                                                               1.255E 02
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 1-182E-01
             2.060F
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 1.084F-01
             2-064E 03
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                                                                                        1.670E
 1.014F-01
             3.066E
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                          5.252F 02
                                      7.241E-02
                                                  1.743E 02
                                                               1.2648 02
                                                                           5.287E 02
                                                                                        1.736E
 8.981F-02
             2.070E
                     03
                          5. 281F 02
                                      7.2148-02
                                                  1.6326 02
                                                               1.269E 02
                                                                           5.309E 02
                                                                                        1.823E
                                                                                                02
             2.072E 03
2.074E 03
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                                                                           5.354E 02
 7-607F-02
                          5.324E Q2
                                      7-156E-02
                                                  1.901E 02
1.947E 02
                                                                                        1.852E
 6.2115-02
                          5.302F 02
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                                                               1.289E 02
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5.451F 02
 4.9255-02
             2.0755
                          5.393F 02
                                      7.065E-02
                                                   1.965E 02
                                                                                        1.9558
                                                               1.295E 02
                                                                                                02
             2.0756 03
 3.4758-02
                          5.419E 02
                                      7.031E-02
                                                   1.973E 02
                                                               1.303E 02
                                                                                        1.9638 02
                                                                           5.473E 02
             2.0755
                          5.4418 02
                                      1.003E-02
                                                  1.978E 02
                                                               1.308E 02
 1.477F-02
                     03
                                                                                        1.968E 02
                                      7.003 E-02
-7.083F-03
             2.0755
                          5.440E J2
                                                   1.9798 02
                                                               1.308E 02
                                                                           5.473E 02
                     03
                          5.423F 02
             2.075E
                                      7.025E-02
                                                   1.977E 02
                                                               1.304E 02
·5-139F-02
             2.074E 03
                          5.338F 02
                                      7.071E-02
                                                   1.962F 02
                                                               1.295E 02
                                                                           5.420E 02
             2.073E 03
-7-31 2F-02
                                      7.157E-02
                          5.3238 02
                                                   1.9136 02
                                                               1.280E 02
                                                                           5.354E U2
                                                   1.7895 02
-9.462F-02
                          5.269E 02
                                       7.230E-02
                     03
             2.0688
                                                               1.2668 02
                                                                           5.296E 02
                          5.2216 02
                                       7.298E-02
                                                   1.5988 02
-1-162F-01
             2.061E 03
                                                               1.253E 02
                                                                            5.242E 02
             2.0536 03
-1.377F-01
                          5.177F 02
                                      7.359E-02
                                                   1.358F 02
                                                               1.2418 02
                                                                            5.192E 02
-1.5985-01
                          5.099E 02
5.004F 02
                                      7.472E-02
             2.048E 03
                                                   1.1698 02
                                                               1.221E 02
                                                                           5.110E 02
-1-819E-01
             2.045F 03
                                      7-613E-02
                                                   1.063E 02
                                                               1.198E 02
                                                                           5-014E 02
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THE THE THEORY STATES AND THE STATES OF

1.020F 02

1.178E 02

4-930E 02

7-7416-02

-2.093E-01 2.044E 03

4.922F Q2

, 200411		-, -												
X(FT)	RS	(FT)	ω.	1 L MM	/SFC)	PSIP	SE)	M		SAM		CPIE	TU/#R)	
1.1251F	_	751E <i>-</i>			4E-01	2.031			70E 01	1.4000	- 00		000E-01	
•••••	••••••		••		••		•• • •							
R(FT)	PTIPSE	l l	TSCR	1	RHOLE	4/FT31	UX (FT/	SECE	H(ATU/	41	TT(R)		JADJ(FT	/SEC 1
2.855E-01	2.045E	•	4. 83 7			5E-02	1.0186		1.158E		846E		1.018E	
2.684F-01	2.0455		4. 83 7			50-02	1.0218		1.1586		846E		1.021E	
2.450F-01	2.045F		4.833			4E-02	1.0198		1.1578		841E		1.019E	_
2.254F-01	2.044E		4-842	_		BE-02	1.0158		1.159E		851E		1.015E	
2.156F-01	2.0458		4.856			5E-02	1.0208		1.163E		865E		1.020E	
2.067E-01	2.045E		4.870			3E-02	1.0276		1.166E		879ë		1.027E	
1.965E-01	2.0455		4. 903			1E-02	1.0416		1.174E		912E		1.041E	
1.865F-01	2.045E		4. 935			0E-02	1.0658		1.181E		944E		1.065E	
1.771E-01	2.046E		4.967			1E-02	1.0998		J.189E		977E		1-099E	
1.662F-01	2.048E		5. 01 2			1E-02	1, 1546		1.201E		023E		1.154E	
1.582F-01	2.049E		5.048			7E-02	1.2038		209E		060E		1.203E	
1.501E-01	2.051E		5.074			BE-02	1.2658		1.216E		3886		1.265E	
1.4245-01	2.053E		5.105			3E-02	1.3348		123E		120E		1.334E	
1.3495-01	2.054E		5.113	_		2E-02	1.3948		1.226E		129E		1.394E	
1.254E-01	2.057E		5.136			5E-02	1.4846		1.233E		156E		1.484E	
1-167F-01	2.060E		5. 158		_	5E-02	1.5738		1.238E		179E	-	1.573E	
1.075E-01	2.063F		5.165			5E-02	1.6568		1.240E		188E		1.656E	
9.944E-02	2.066E		5.185			7E-02	1.7356		1.245		210E		1.735E	
9.038F-02	2.0698		5. 206			- 02	1.7976		1.2518		233E		1.7978	
8.26 0E-02	2.071E		5. 21 8			1E-02	1.8456		1.254E		246E		1.845E	
7.401F-02	2.072E		5. 239			2°-02	1.8858		1.259E		269E		1.885E	
6.583F~02	2.073E		5.256			8t-02	1.9166		1.263E		287E		1.916E	
5.783E-02	2.074E		5. 283			2E-02	1.9368		1.2708		314E		1.936E	
4.871E-02	2.074E		5.309			5E-02	1.9478		1.276E		340E		1.947E	
4.018E-02	2.075E		5.331			7E-02	1.9618		1.282E		363E		1.961E	
2.463F-02	2.075E		5.348			+E-05	1.9708		1.286E		380E		1.970E	
9.674F-03	2.075E		5.366			DE-02	1.9698		1.291E		398E		1.969E	
-6.865E-03	2.075		5.366			05-02	1.9688		1.2916		398E	-	1 + 7076	02
-2.790E-02	2.075E		5.348			4E-02	1.9676		1.286E		380F			
-5.157F-02	2.074E		5.309			5E-02	1.9486		1.276E		340E			
-6.735F-02	2.074E		5-265			5E-02	1.9208	_	1.266E		296E	_		
-8.015E-02	2.072E		5. 235			7E-02	1.8748		1.258E		264E			
-9.493E-02	2.069E		5-188			3E-02	1.7916		1.246E		215E			
-1.023F-01	2.067E		5-176			DE-02	1.7386		1.243E		201E			
-1.101F-01	2.064E		5.160			3E-02	1.6708		1.238E		183E			
-1.179E-01	2.061E		5.144			5E-02	1.5868		1.234E		165E			
-1.268E-01	2.058E		5.119			26-02	1.497		1.228E		138E			
-1.349E-01	2.055E		5-103			5E-02	1.416		1.223E		120E			
-1.430E-01	2.053E		5. 086			0E-02	1.3398		1.219E		101E			
-1.619E-01	2.033E		5.021			8E-02	1.1718		1.203E		032E			
-1.793F-01	2.046E		4.948			9E-02	1.0876		1.184E		958E			
-1.968E-01	2.045E		4.875			5E-02	1.0356		1.167E		883E			
-2.235E-01	2.045E		4.828			1E-02	1.0176		1.156E		836E			
-2.338F-01						9E-02	1.0186		1.1546		832E			
-2.3306-01	2.045E	03	4.823	- UZ	1.04	76-02	1.019	- 02	エ・エンサビ	VZ 4.	U 3 E C	45		

X(FT)	RS(FT)	WJ (#M/SEC	C) PS(PSF)	PH	GAM C	P(BTU/#R)
1.24946	00 2.2496E-01	6.05556-0	01 2.0318E 03	2.8970E 01 1	L.4000E 00 2	-4000E-01
R(FT)	PT(PSF) T	rs(R) RHO	D(#M/FT3) UX(FT/	SEC) H(BTU/A) Tř(R)	UADJ(FT/SEC)
2.856E-01			.853E-02 1.016E			
2.727F-01			853F-02 1.017E			
2.573E-01			861E-02 1.016E			
2.424E-01			.861E-02 1.018E			
2,275F-01			.853E-02 1.017E		2 4.860E 02	1.017E 02
2.125E-01	2.C45F 03 4.	879F 02 7.	.80%E-02 1.033E	02 1.168E C	2 4.888E 02	1.033E 02
1.977E-01	2.045E 03 4.	91 2E 02 7.	.757F-02 1.056E	02 1.176E	02 4.921E 02	
1-814E-01	2.046E 03 4.	976E 02 7.	.657E-02 1.105E			
1.668E-01			.574E-02 1.176E			
1.5835-01			.528E-02 1.230E			
1.500 -01			.495E-02 1.28 <u>4</u> E			
1.4151-01			•457E-02 1•347E			
1.339F-01			.433E-02 1.413E			
1.245F-01			.410E-02 1.505E			
1.165E-01			.393E-02 1.577E			
1.0766-01			.363E-02 1.645E			
9.473E-02			•335E-02 1•736E			
6.433E-02 7.293E-02			.306E-02			
6.212F-02			•235E-02 1•898E			
5.219E-02			•200E-02 1•925E			
3.845F-02			.158E-02 1.951E			
2.1748-02			.112F-02 1.9666			
3.976E-03			.106E-02 1.971E			
-1.250E-02			.112E-02 1.972E			
-3.015F-02			.129E-02 1.959E			
-4.675E-02	2.074E 03 5.		.176E-02 1.938E		02 5.340E 02	
-6.270E-02	2.073E 03 5	274E 02 1	.223E-02 1.910E	02 1.268E (02 5.305E 02	:
-7.813E-02	2.071E 03 5.	236E 02 7	.276E-02 1.8548	02 1.259E	02 5.264E 02	!
-9.408F-02	2.068E 03 5	.193F 02 7.	.336E-02 1.7748	02 1.248E (
-1.184E-01			.400E-02 1.5828			
-1.409F-01			.465E-02 1.3768			
-1.644E-01			•566E-02 1•1886			
-1.861E-01			.692E-02 1.080E			
-2.111E-01			.831E-02 1.0328			
-2.339E-01	2.045E 03 4	.847E 02 7.	.861E-0Z 1.020E	02 1-160E (02 4 .8 55E 02	:

X(FT)	RS(FT)	MH } LW	SEC) PS(P	SF} MW	G	AM CF	(BTU/#R)
1.5139F	00 2.4084F-	-01 6.0448	E-01 2.031	8E 03 2.8970	DE 01 1.40	000E 00 2.	4000E-01
R(FT)	PT(PSF)		RHO:#M/FT3)		H(BTU/#)	TT(R)	UADJ(FT/SEC)
2.860E-01	2.044F 03	4.870F 02	7.822E-02		1.166E 02	4.879E 02	1.022E 02
2.779F-01	2.044E 03	4.8665 02	7.830E-02		1.164E 02	4.874E 02	1.0266 02
2.614E-01	2.0445 03	4.866E 02	7.830E-02		1.1658 02	4.874E 02	1.031E 02 1.039E 02
2.4976-01	2.044E 03	4.870F 02	7.823F-02 7.808E-02		l.166E 02 l.168E 02	4.888E 02	1.039F 02
2.391F-01	2.045E 03	4.879F 02	7.778F-02		1.108E 02	4.907E 02	1-052E 02
2.265F-01	2.045E 03 2.045E 03	4. 91 2F 02	7.757E-02		1.175E 02	4.921E 02	1.066E 02
2.157F-01 2.042E-01	2-046F 03	4.944F 02	7.706E-02		1.184E 02	4.954E 02	1.089E 02
1.926F-01	2.046E 03	4.976E 02	7.657E-02		1.191E 02	4.986E 02	1.127E 02
1.816F-01	2.J47E 03	5.003E 02	7.615F-02		1.198E 02	5.014E 02	1.162E 02
1.705E-01	2.047E 03	5. 03 9F 02	7.561E-02		-207E 02	5.051E 02	1.217E 02
1.588F-01	2.051F 03	5.065F 02	7.522E-02		1.214E 02	5.078E 02	1.288E 02
1.469F-01	2.053E 03	5.0956 02	7.477E-02		1.221E 02	5.110E 02	1.367E 02
1.393E-01	2.055F 03	5.112F 02	7.452E-02		.226E 02	5.129E 02	1.412E 02
1.242F-01	2.058E 03	5.133F 02	7.423E-02		.231E 02	5.151E 02	1.517E 02
1.094E-01	2.062E 03	5.1625 02	7.381E-02		1.239E 02	5.183E 02	1.621E 02
1.001E-01	2.064E 03	5.178F 02	7.357E-02		1.243E 02	5.201E 02	1.674E 02
9.1956-02	2.066E 03	5.190F 02	7.340F-02		.246E 02	5-215E 02	1.725E 02
8.213E-02	2.068E 03	5. 202E 02	7.323E-02		1.249E 02	5.228E 02	1.771E 02
7.401F-02	2.069E 03	5.215F 02	7.306E-02		-253E 02	5.242E 02	1.811E 02
6.524F-02	2.071F 03	5.236F 02	7.276-02		1.258E 02	5-264E 02	1.853E 02
5.671F-02	2.0725 03	5. 25 3F 02	7.252E-02		1.263E 02	5.282E 02	1.875E G2
4.082E-02	2.073E 03	5.288E 02	7-205E-02		1.271E 02	5.318E 02	1.917E 02
2.370F-02	2.074E 03	5. 32 3E 02	7.158E-02		1.279E 02	5.354E 02	1.940E 02
6.047F-03	2.074E 03	5.340F 02	7.1356-02		1.284E 02	5.372E 02	1.9536 02
-1.125F-02	2.074E 03	5.322F 02	7.158E-02		1.279E 02	5.354E 02	•••••
-2.703F-02	2.0745 03	5.3095 02	7.1762-02		1.277E 02	5.340E 02	
-4.415E-02	2.073E 03	5.279F 02	7-217E-02		1.269E 02	5.309E 02	
-5.964E-02	2.071E 03	5.244E 02	7.265E-02		1.2605 02	5.273E 02	
-7.588F-C?	2.069E 03	5.206F 02	7.318E-02	1.794E 02	1.251E 02	5.233E 02	
-9.949E-02	2.064E 03	5.169E 02	7.370E-02	1.657E 02	1.241E 32	5-192E 02	
-1.2298-01	2.058E 03	5.128F 02	7.429E-02		1.230E 02	5.147E 02	
-1.465E-01	2.053E 03	5.077F 02	7.504E-02		1.217E 02	5.092E 02	
-1.708E-01	2.048E 03	5.012F 02	7.602E-02		1.201E 02	5.023F 02	
-1.950E-01	2.046E 03	4.944E 02	7.706F-02		1.184E 02	4.954E 02	
-2.174E-01	2.045E 03	4.889F 02	7.793E-02	1.035E 02	1.171E 02	4.898E 02	
-2.412E-01	2.044E 03	4.861E 02	7.838F-02	1.018E 02	1.163E 02	4.869E 02	

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VELOCITY RATIO 2:1, UNTRIPPED
   X(FT) RS(FT) HJ(#M/SEC) PS(PSF) MM GAM CP(BTU/#R)
1.7547F 00 2.5528E-01 5.9950E-01 2.0318E 03 2.8970E 01 1.4000E 00 2.4000E-01
                                      RHO(8M/FT3) UX(FT/SEC) H(BTU/#)
                                                                                            UADJEFT/SEC I
 RIFTI
                         4.885E 02 7.800E-02
4.885E 02 7.800E-02
 2.8926-01
             2.0445 03
                                                    9.927E 01 1.169E UZ
                                                                              4.893E 02
                                                                                            1.013E 02
             2-044E 03
                                                    9.958E 01
1.003E 02
                                                                                            1-01AF 02
 2.835E-01
                                                                 1.169E 02
                                                                               4.8936 02
 2-653F-01
                                      7.792E-02
                                                                               4-8986 02
                                                                                            1.0235 02
                           4.8898 02
                                                                 1.110F 02
              2-044E 03
                                       7.785E-02
                                                     1.015E 02
                                                                                            1.035E U2
              2.044E 03
                           4.894F 02
                                                                 1.172E 02
                                                                               4.902E 02
 2.263F-01
                           4.921F 02
                                        7.7426-02
                                                     1.0438 02
                                                                  1-178E 02
                                                                               4.930E 02
                                                                                            1.062E 02
              2.0455 03
                           4.9448 02
                                       7.706E-02
             2.046E 03
                                                    1.069F 02
1.108E 02
 2.1196-01
                                                                  1.184E 02
                                                                               4-954E 02
                                                                                            1.088E 02
                           4. 976F 02
                                                                  1.191E 02
                                        7.657F-02
                                                                               4.986E 02
 1.978F- 01
                                                                                            1-126E 02
              2.0465 03
                           5.0075 62
                                                     1.163F 02
                                                                  1.199€ 02
                                                                               5.019E 02
                                                                                            1.179E
 1.836F-01
             2.048F
                     03
                                        7.609E-02
                                                                  1.209F 02
  .683F-01
              2.050F 03
                           5.0478 02
                                        7.548E-02
                                                     1.226E 02
                                                                               5.060F 02
                                                                                            1-2426 02
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7.465E-02
                           5.078E 02
5.104E 02
                                                    1.307E 02
1.387E 02
                                                                 1.217E 02
1.223E 02
 1 - 549F-01
             2.0525 03
                                                                               5.092F 02
                                                                                            1.320E 02
                                                                                            2.399E 02
 1.3996-01
              2.0548 03
                                                                               5.120E 02
              2.057E 03
                           5.129F 02
                                        7.428E-02
                                                     1.478E 02
                                                                  1.230E 02
                                                                                            1.488E 02
 1.1057-01
              2.9698 03
                           5,149F 02
                                        7.399E-02
                                                     1.5668 02
                                                                  1.236E 02
                                                                               5.170E 02
                                                                                            1.575E 02
                           5.165F 02 7.376E-02
5.186E 02 7.346E-02
                                                                               5.188E 02
 9-609F-02
             2.0636 03
                                                     1.6475 02
                                                                  1-240E 92
                                                                                            1.653E 02
                                                     1.712E 02
                                                                  1-245E 02
                                                                               5.210E 02
                                                                                            1.718E J2
 8.172F-02
              2.065E 03
                           5.225F 02
5.241° 02
                                                                                            1.7866
 6.769E-02
             2.068E 03
                                        7.292E-02
                                                     1.783F 02
                                                                  1.254E 02
                                                                               5.251E 02
                                                    1.839E 02
1.885E 02
 5.303F~02
              2.070E 03
                                        7-270E-02
                                                                  1.259E 02
                                                                               5.269E 02
5.291E 02
                                                                                            1.842E 02
              2.072E 03
                                                                  1.264E 02
 3.935E-02
                           5.262E 02
                                        7.241 E-02
                                                                                            1_886E 02
 2.813E-02
              2.073E 03
                           5.288F 02
                                        7.205E-02
                                                     1.9105 02
                                                                  1.271E 02
                                                                               5.318E 02
                                                                                            1.9115
 7.911F-03
              2.073E 03
                           5.310E 02
                                        7.1756-02
                                                     1.925E 02
                                                                  1.276E 02
                                                                               5.340E 02
                                                                                            1.926E 02
                                                                  1.273E 02
1.262E 02
1.249E 02
                           5.292F 02
5.249E 02
                                        7.199E-02
7.258E-02
                                                    1.917E 02
1.859E 02
-2.072E-02
              2.073F 03
                                                                               5.323E 02
-4.766F-02
              2.071= 03
                                                                               5.276E 02
-7-355E-02
              2.067E
                           5-198F
                                   02
                                        7.329F-02
                                                     1.756E 02
-9.383E-02
              2.0646 03
                           5.160E 02
                                        7.383E-02
                                                     1.665E 02
                                                                  1.239E 02
                                                                               5.183E 02
                                                     1.568E 02
1.437E 02
                           5.136F 02
5.107F 02
                                       7.419E-02
                                                                  1.232E 02
1.224E 02
-1-121F-01
              2.060E 03
                                                                               5.156E 02
                                        7.460E-02
                                                                               5-124E 02
-1.320E-01
              2.056E 03
              2.0528
                           5.082E 02
                                        7.497E-02
                                                     1.329E 02
-1.505E-01
                      03
-1.693F-01
              2.050E 03
                           5.038E 02
                                        7.562E-02
                                                     1.229E 02
                                                                  1.207E 02
                                                                               5-051E 02
                           4.994E 02
                                                     1.139F 02
1.076E 02
-1-873F-01
              2.047E 03
                                        7.629E-02
7.706E-02
                                                                  1.196E 02
1.184E 02
                                                                               5.005E 02
                           4.944E 02
-2.059F-01
              2.046E 03
                                                                               4.9541
                                                                                       02
                           4.907F 02
-2.253F-01
              2.045F 03
                                        7.764E-02
                                                     1.037E 02
-2.378F-01 2.045E 03
                           4.898E 02
                                        7.778E-02
                                                    1.023E 02
                                                                 1.173E 02
                                                                               4-907E 02
    XIFTI
                                HJE#M/SECT
                                              PS(PS+)
                  RS(FT) .
                                                                                         CP(BTU/#R)
   X(FT) RS(FT), HJ(#M/5EC) PS(PSF) MW GAM CP(8TU/#R)
1.9257E 00 2.6554E-01 5.8676E-01 2.0318E 03 2.8970E 01 1.4000E 00 2.4000E-01
                                       RHO(#M/FT3) UX(FT/SEC)
                                                                   H(BTU/#)
              PTIPSE
                            TS(R)
                                                                                            UADJ(FT/SEC)
 2.782E-01 2.044E 03 4.904E 02 7.770E-02 2.556F-01 2.044E 03 4.908E 02 7.763E-02
                                                    9.850± 01 1.174F 02 4.912E 02
1.003E 02 1.175E 02 4.916E 02
1.034E 02 1.179E 02 4.935E 02
                                                                                            9.950E 01
                                                                                            1-0136 02
                                        7-734E-02
 2.321F-01
              2.045E 03
                           4.926E 02
                                                                                             1-044E
                                        7.677E-02
 2.102F-01
                           4.963F 02
                                                     1.073E 02
                                                                  1.188E 02
                                                                               4.972E 02
                                                                                            1.083E
              2.046E 03
                                        7.608E-02
                                                     1,134E 02
1-194E 02
 1-910F-01
              2.047E 03
                           5. 008E 02
                                                                  1.199E 02
                                                                               5.019E 02
                                                                                             1-144E
                           5.039F 02
                                                                  1.207E 02 5.051E 02
 1.747F-01
                                                                                            1.204F
              2.049F 03
                                        7.561E-02
 1.5748-01
              2.0510 03
                           5.078F 02
                                        7.5028-02
                                                     1.282E 02
                                                                  1.21/E 02
                                                                               5.092E 02
                                                                                            1.292E
                                                                               5-124E 02
 1.399F-01
              2.054F 03
                           5.109E 02
                                        7.458E-02
                                                     1-366F G2
                                                                  1.225E 02
                                                                                             1.376E
                                                                  1.231E 02 5.151E 02
1.236E 02 5.174E 02
1.242E 02 5.197E 02
 1.245F-0:
              2.057E 03
                           5.134F 02
5.154F 02
                                                     i.463E 02
1.548E 02
                                                                                            1.47JE
1.558E
                                        7-421E-02
 1.072F-01
              2.059E 03
                                        7.3925-02
 8.992F-02
              2.963E
                           5.174F
                                        7-363E-02
                                                     1.6458 02
                                                                                             1.655E
                                   02
 7.227F-02
              2.065E 03
                           5.200E 02
                                        7.3276-02
                                                     1.711E 02
                                                                  1.249E 02
                                                                               5-224E 02
                                                                                             1.721E
 5-2875-02
              2.069F 03
                           5.229E 02
                                        7.287E-02
                                                     1.795E 92
                                                                  1.256E 02
1.264E 02
                                                                               5-255E 02
                                                                                            1.805F
                                                                                                     02
              2.0715 03
                           5.258E 02
                                        7.245E-02
                                                     1.849E 02
 3.703F-02
                                                                               5.287E 02
                                                                                             1.859E
                                        7.216F-02
7.198E-02
7.204E-02
 1.962F-02
              2.072E 03
                           5.280F 02
                                                     1.885E 02
                                                                  1.269E 02
                                                                               5.309E 02
                                                                                             1.895E
                           5.293F 02
5.288F 02
                                                     1.901E 02
1.895E 02
                                                                  1.272E 02
1.271E 02
                                                                                                     02
 2.31 RF-03
              2.073F 03
                                                                               5.323E 02
                                                                                             1.911E
-1.556F-02
              2.072E 03
                                                                               5.318E 02
-3.292E-02
              2.071E 03
                           5.262E 02
                                        7.240E-02
                                                     1.868E 02
                                                                  1.264E 02
                                                                               5.291E 02
-5.513E-02
              2.0695 03
                           5.233E 02
                                        7.281E-02
                                                     1.811E 02
                                                                  1.257E 02
                                                                                5.260E 02
-7.428F-02
                           5.204F 02
5.179F 02
                                        7.321E-02
                                                                  1.249E 02
1.243E 02
              2.066E 03
                                                     1.726E 02
                                                                               5-228E 02
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and the state of the section is a market of the section of the sec

1.646E 02

1.515E 02

1.390E 02

1.265E 02

1.171E 02

1.082E 02

1.041F 02

1.030E 02

1.233E 02

1.224E 02

1.212E 02

1.202E 02

1.189E 02

1.179E 02

1-177E 02

5.201E 02

5.069F 02

5.028E 02

4.977E 02

4.935E 02

4.926E 02

5.161E 5.124E 02

7.357E-02

7.410E-02

7.459E-02 7.536E-02

7.595E-02

7.670E-02

7.734E-02

7.749E-02

-9.785F-02

-1.198F-01

-1.426F-01

-1-663F-01

-1.8854-01

-2.10JF-01

-2.328F-01

-2.425F-01

2.063F 03

2.058E 03

2.0545 03

2.051E 93

2.048E 03

2.046F 03

2.045E 03

2.045F 03

5.141E 02

5.108F 02

5.056F 02

5.0165 02

4.967E 02

4.926E 02

4.917F 02

λ(F*)	₽S(FT)	\M#}LW	SEC) PS(P	SF \	MW	GAM	CP(BTU/#R)
4.41115-					.8970E 01	1.4000E 0	
P(FT)	PT (PSF)		RHO(#4/FT3)				
1.486F-01	2.054E 03	4.570E 02	8.376E-02	9.871E			
1.7925-01	2.0545 03	4.570 02	8.1765-02		01 1.094E		
1.6405-01	2.0545 03	4.5635 02	8.3935-02		01 1.0918		
1.5415-01	2.0545 03	4.5555 02	9.4C2F-02	9.8475			- - -
1.4715-71	2.0547 03	4.57CF 02	8.3765-02		01 1.094E		
1.4165-71	2.0549 03	4.57CE 02	8.3755-02	9.775F 9.648F			
1.3795-01	2.053E 03	4.580F 02 4.580F 02	8.357¢-02 8.3575-02	9.553F			
1.3616-01	2.0525 03	4.585 02	8.348F-02	9.467E			=
1.3176-01	2.052F 03	4 6245 02	8.2778-02	9.1765			
1.2965-01	2.0515 03	4.644F UZ	8.2425-02	8.860°			
1.2765-01	2.0515 03	4.697F 02	9-1486-02	8.509E			
1.2605-01	2.049F 03	4.7415 02	8.0735-02	8-1065			
1.2375-01	2.0495 03	4.8075 02	7.9615-02	8.0235			
1.2195-01	2.049E 03	4,8985 02	7.8315-02	7.957E			
1.1995-01	2.0495 03	4.939# 02	7.7505-02	8.153F			
1.1775-01	2.050F 03	4.975F 02	7.6935-02	8.6615			
1.1515-01	2.0515 33	5.030F 02	7.6095-02	9.144F			
1.130f -01	2.052 03	5.062F 02	7.5625-02	9.499F			E 02
1.1075-01	2.0525 03	5.080F 02	7.535F-02	9.804E		02 5.088	E 02
1.0865-01	2.053E 03	5.107E 02	7.4955-02	1.0085	02 1.223E	02 5.115	E 02
1.0655-01	2.0545 03	5.102F 02	7.5025-02	1.027F	02 1.2218	02 5.110	E 02
1.039F-01	2.054E 03	5.110F 02	7.489E-02	1.047E	02 1.223E	02 5.120	E 02
1.0076-11	2.054E 03	5.1285 02	7.4635-02	1.0635	02 1.2286	02 5.138	E 02
8.660F-02	2.0555 73	5.1465 02	7.4376-02	1.0776	02 1.2325		
6.484F-02	2.0548 03	5.156 02	7.4245-02	1.070E			
4.418F-02	2.054F 03	5.147E 02	7.4375-02	1.068F			
2.2775-02	2.0545 03	5.142F 02	7.443F-02	1.0605			
3.473F-04	2.0545 03	5.151F 02	7.4305-02	1.0585			-
-2.119°-02	2.0545 03	5.133F 02	7.456E-02	1.0598			
-4.2957-02	2.054E 03	5.138F 02	7.4505-02	1.0595			
-0.1895-02	2.054E 03	5.147F 02	7.43/E-02	1.0636			
-1.828E-02	2.0545 03	5.128F 02	7.463E-02	1.0675			
-9.233F-02	2.054F 03	5.133F 02	7.457F-02	1.064E			
-1.027F-01	2.0545 03	5.0975 02	7.5105-02	1.0445			
-1.090F-01	2.053E 03 2.052F 03	5.070E 02	7.549E-02 7.610E-02	1.000F 9.323E			
-1.1495-01	2.0505 03	4.094F 02	7.665E-02	8.801F			
-1.189F-01 -1.237F-01	2.049F 03	4.906F 02	7.801E-02	7.9235			
-1.261F-01	2.0485 03	4.8415 02	7.906F-02	7.510E			
-1.284F-01	2.0495 03	4.770F 02	8.024E-02	7.815F			
-1.333F-01	2.051E 03	4.630° 02	9.267E-02	8.7195			
~1.383E-01	2.0535 03	4.561 02	8.392F-02	9.333E			
-1.490°-01	2.054E 03	4.5415 02	9.429F-02	9.744E			
-1.5975-01	2.0545 03	4.536F 02	8.4385-02	9.821E			E 02
-1.708F-01	2.0545 03	4.536F 02	8.438E-02	9.8288			
-1.769F-01	2.054E 03	4.5215 02	8.466E-02	9.7638			
-1.7892-01	2.0545 03	4.521F 02	8-4665-02	9.7705	01 1.0828	02 4.529	E 02

X(FT)	RS(FT)	WJ (WM/SEC) PS(PSF)	MW	GAM	CP(BTU/#R)
1.29666-				2.8970F 01	1.4000E 00	2.4000E-01
0.457.	051055)	75404 040			/#) TT(R	UADJ(FT/SEL!
R (FT) 2.039E-01	PT(PSF) 2.354F 03		(MM/FT3) UX(FT 331E-02 9.790			
1.840F-01	2.0545 03		340F-02 9.771			
1.698F-01	2.054E 03		340E-02 9.74			
1.597F-01	2.0545 03		313E-02 9.744			
1.528E-01	2.053E 03		322E-02 9.72		02 4.607E	02
1.4656-01	2.053E 03	4.623E 02 8.	2785-02 9.544	E 01 1.106E	02 4.6316	02
1.424F-01	2.053E 03		210E-02 9.591			
1.385E-01	2.053E 03		159E-02 9.47			
1.346E-01	2.052E 03		076E-02 9.09			
1.3244-01	2.052E 03		068F-02 9.06			
1.305F-01	2.051E 03		0196-02 8.945			
1.284F-01 1.260E-01	2.051E 03 2.051E 03		956E-02 8.892 932E-02 8.780			
1.238E-01	2.051E 03		909E-02 8.74			
1.217E-01	2.0515 03		855E-02 8.79			
1.1985-01	2.051F 03		8035-02 8.92			
1.163F-01	2.051E 03		745F-02 9-17			
1.130F-01	2.0525 03	4.979F 02 7.	688E-02 9.509	E 01 1.1916	02 4.986E	02
1.108F-01	2.053F 03	5.0115 02 7.	6395-02 9.80			
1.065E-01	2.053E 03		577E-02 1.015			• -
9.9295-02				F 02 1.2288		
8.548F-02	2.0555 03		392F-02 1.08			
6.603E-02	2.0555 03		366F-02 1.C7			
4.686E-02 3.075F-02	2.054E 03 2.054E 03		385E-02 1.073 385E-02 1.073			
6.4075-03	2.0548 03		379E-02 1.07			
-1.748E-02			404E-02 1.07			
-4.107E-02	2.054E 03			SE 02 1.2398		
-6.438E-02	2.055E 03		398E-02 1.076			
-8.228F-02	2.055E 03	5.174E 02 7.	398E-02 1.086	DE 02 1.2398		
-9.609E-02	2.054 03		457E-02 1.06			
-1.023F-01	2.054F 03		5095-02 1.03			
-1.078F-01	2.053E 03			SE 01 1.2031		
-1.143E-01	2.052E 03		723E-02 9-28			
-1.204F-01 -1.245F-01	2.0518 03		825E-02 8.744 901E-02 8.59			
-1.290E-01	2.050E 03 2.051E 03		901E-02 8.59			
-1.315E-01	2.051E 03		027E-02 8.85			
-1.386F-01	2.052E 03			E 01 7.124		
-1.452E-01	2.053E 03			E 01 1.110		
-1.52GE-01	2.054E 03		340E-02 9.78			02
-1.610F-01	2.054E 03			F 01 1.098		
-1.698E-01	2.054E 03	4.565E 02 8.	384E-02 9.80	2E 01 1.0938	02 4.573E	02

		, .		_								
X(FT)	R	SIFTI		3(#4	/SEC) `	PSC	PSF)	Mir	•	GAP	•	CP(BTU/#R)
2.51175-	01 1.	6507F			8E-01				OF 01		UF 00	2.4000E-01
••••												
P(FT)	PTIPS	E)	TSCR		RHOLA	4/FT3	UXIFT	SEC	HEBTU/	41	TT(R)	UADJ(FT/SEC)
2.087F-01	2.054		4.618			8E-02			1.105E		.626E	
1.8945-01			4.613				9.9626		1.106E		.626E	
1.780E-01			4.623				9.9366		1.106E		.631E	
1.662F-01			4.623			96-02			1.1075		.631E	
1.5535-01			4.652				9.8289		1.114E		.660E	
1.511F-01			4.676				9.8369		1.1196		.684E	
1.474F-01			4.695				9.739		1.124E		.703E	
1.4325-01	2.053		4.720				5.579E		1.129E		.727E	
1.3855-01			4.758				9.406		1.139F		.765E	
1.3415-01			4.787				9.2688		1.145E		.794E	
1.298F-01			4.829				9.1939		1.1568		.836E	
1.2595-01			4.862				9.2129		1.164E		.869E	
1.211F-01			4.890				9.241		1.170E		.898E	
1.169F-01	2,052		4.928				9.4189		1.1798		.935E	
1.1215-01			4.978				9.690F		1.191=		.986E	
1.0505-01			5.051				1.017		1.209F		.060E	
9.5335-02			5.128				1.0625		1.228F		.138E	
8.5725-02			5.174				1.0756		1.2388		- 183E	
7.5946-02			5.192				1.075		1.2436		.201E	
5.574E-02			5.201				1.0715		1.245E		.210E	
3.525°-02			5.201				1.0698		1.245F		.210E	
1.396=-02			5.196				1.070		1.2448		-206E	
-7.971F-03			5.201				1.0698		1.245E		.210E	
-3.623F-02			5.187				1.0596		1.2428		.197E	
-6.465F-02			5.196				1.0759		1.2445		.206E	
-8.480F-02			5.174				1.0748		1.239E		. 183E	
-9.810E-02			5.079				1.0375		1.2165		.088E	
-1.089F-01			4.988				9.6815		1.194E		.945E	
-1.203E-01			4.895			8E-02			1.1716		.902F	
-1.3105-01			4.787				9.0045		1.1465			
-1-445F-01			4.696				9.4876		1.124E			
-1.582F-01			4.623				5.7298		1.1065		.631E	
-1.719F-01	2.054		4.604			4F-02			1.1025		-612E	
-1.924F-01			4.599				5.7196		1.1016		-607F	
-2.133F-01			4.599				5.7799		1.1016		-607E	
-2.211F-01	2.054		4.594				9.8228		1.0995		-602E	
-2.257F-01			4.594				9.8116		1.0996		-602E	
-2.198E-01	-		4.599				9.8678		1.1016		-607E	
-2.198E-01	2.054		4.594			15-02			1.099E		.602E	
-2.5777	£ • U) 4	- 03	70279	- UZ	0.77	102	7.0300		1.0175	UZ 4	*****	VE

X(FT)	RS(FT)	43 t # M /	SEET PST	PSFI	4 W	GAM	CP(BTU/#R)
3.8216F-0	1.7293	-C1 3.5099	E-01 2.04	12E 03 2.8	970E OL 1.	4000E 00	2.40005-01
9 (FT)	PT(PSF)	TS(R)		UX(FT/SEC			UADJ("T/SEC)
1.909F-01	2.054F 03	4.637F U2	8.253F-02		1.110E 02		
1.725F -01	2.0545 03	4.6425 02	8.245°-02	9.8988 01	1.1118 02		
1.600F-01	2.0545 03	4.666F 02	3.2025-02	5.894F OT			_
1.536F-01	2.0545 03	4.690° 02	8.160r-02	9.857F 01	1.123E 02		
1.475F-01	2.0535 03	4.7245 02	8.1025-02	9.738F 01	1.131E 02		
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CONTRACTOR OF THE B.

VELOCITY RATIO 1:1, UNTRIPPED

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            PT(PSF)
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NOMENCLATURE

- a₁ Ratio of turbulent shear stress to turbulent kinetic energy
- C_f Skin friction coefficient = $\tau_w / \frac{1}{2} \rho_j U_j^2$ or $\tau_w / \frac{1}{2} \rho_e U_e^2$
- Diameter of inner nozzle
- Do Diameter of outer nozzle
- H Boundary-layer shape factor, δ^*/θ
- k Turbulent kinetic energy/unit mass, $\frac{1}{2}[(u')^2 + (v')^2 + (w')^2]$
- \(\ell_k\) Turbulent kinetic energy characteristic length scale
- Prandtl number for turbulent kinetic energy, ratio of eddy diffusivity for momentum transport to that for turbulent energy transport
- r Radial coordinate
- r* Control volume radius at which turbulent shear stress is evaluated
- r_e^* Control volume radius beyond outer edge of mixing region
- r_i Inner nozzle radius
- z_{mu} Radius at point at which $u = \frac{1}{2}(U_j + U_e)$
- Re θ Reynolds number based on boundary-layer momentum thickness at nozzle exit, $U_j\theta/\nu$ or $U_e\theta/\nu$
- U_c Axial velocity on the centerline of the flow field
- U_e Maximum axial velocity of annular stream
- U_j Axial velocity of center stream on the centerline
- u Axial component of mean velocity
- u' Axial component of turbulent velocity fluctuation
- u^* Velcity at $r = r^*$
- v Radial component of mean velocity

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- v' Radial component of turbulent velocity fluctuation
- w Azimuthal component of mean velocity
- w' Azimuthal component of turbulent velocity fluctuation
- x Axial coordinate measured from nozzle exit
- δ Boundary-layer thickness
- δ^* Boundary-layer displacement thickness, defined as $\int [1 (u/U_j)] dy$ for inner boundary layer and $\int [1 (u/U_e)] dy$ for outer boundary layer
- δ_L Center nozzle lip thickness
- ϵ Turbulent kinetic energy dissipation rate
- Boundary-layer momentum thickness, defined as $\int [u/U_j(1-u/U_i)] dy$ for inner boundary layer and $\int [u/U_e(1-u/U_e)] dy$ for outer boundary layer
- μ_{Υ} Turbulent eddy viscosity
- μ_T^* Turbulent eddy viscosity at $r = r^*$
- v Kinematic viscosity
- ρ Density
- ρ^* Density at $r = r^*$
- ρ_e Density of the outer stream gas
- ρ_j Density of the jet gas
- σ Two-dimensional shear layer spread-rate parameter
- τ Turbulent shear stress
- τ^* Turbulent shear stress at $r = r^*$
- τ_{mu} Turbulent shear stress at $r = r_{mu}$